

The



CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

JUNE 4 1955

Look!

watch for Big things from **OPTREX LTD**

PAYNOCIL

OVERCOMES ASPIRIN IRRITATION

Paynocil is a new, non-irritant, palatable analgesic representing a considerable advance in formulation among products of its kind. It combines acetylsalicylic and amino-acetic acids in a tablet offering the following advantages:

- * *It does not cause gastric irritation.*
- * *It provides the most palatable and convenient form of analgesic medication.*
- * *It disintegrates pleasantly and rapidly on the tongue; swallowing with water or chewing are unnecessary.*
- * *An effective dose of aspirin (10 grains—0.65 grammie) is provided in one tablet.*



Packaging and Prices:

Tubes of 18 and dispensing packs of 240 tablets.
Basic N.H.S. cost of 240.. 27/-

LONG TERM, INTENSIVE USE

Because of its non-irritant properties Paynocil is ideal in the prolonged aspirin therapy necessary in rheumatoid arthritis.

SHORT TERM OR OCCASIONAL USE

It is equally suitable for the occasional analgesia required for headaches or neuralgia owing to its convenience and acceptability to all patients.

Formula: each tablet contains:

Acetylsalicylic acid	10 grains (0.65 grammie)
Amino-acetic acid	5 grains (0.32 grammie)

C. L. BENCARD LTD

Telephone: ELGar 6681



PARK ROYAL, LONDON, N.W.10

Telegrams: Bencarland, Harles, London



CHEMOTHERAPY OF TUBERCULOSIS

B-PAS

WANDER

PRODUCTS

These are now in unrestricted supply to provide the significant advantages of the newest clinically proven modification of PAS, i.e. B-PAS (4-Benzoylaminoo-2-hydroxybenzoic acid).

Extensive published reports based on the criteria of bacteriostatic levels, patient toleration and clinical results show that B-PAS (Wander) is a major contribution to the chemotherapeutic armamentarium against tuberculosis.

Calcium B-PAS (Wander) is virtually insoluble; hence its slower absorption and excretion, and ability to provide high blood levels of extended duration, but with relatively low dosage. In contradistinction to other forms of PAS, B-PAS (Wander) is entirely free from unpleasant taste. It is thus acceptable to patients in easily taken powder form, as well as in cachets if preferred. The powder form is supplied in convenient single-dose envelopes, or in bulk in any quantity.

PACKS—Powder: Tins of 150 and 500 x 3·5 g. envelopes.

Cachets: Tins of 80 and 400 x 1·0 g.

Sodium B-PAS (Wander) also available in 1.5 g. Cachets

'B-PASINAH' **WANDER**

combined B-PAS and Isoniazid (INAH)

To facilitate concurrent administration of B-PAS (Wander) and INAH, this product is formulated so that 12 Cachets daily in divided dosage provides 12 g. of Calcium B-PAS (Wander) plus 300 mg. of INAH.

PACKS—Cachets each containing 1 g. 'B-Pasinah' (Wander) and 25 mg. INAH: Tins of 100 and 500.

Details of institutional quantities and prices sent on request.

*All Wander tuberculostatic products
are available from usual wholesalers or direct from*

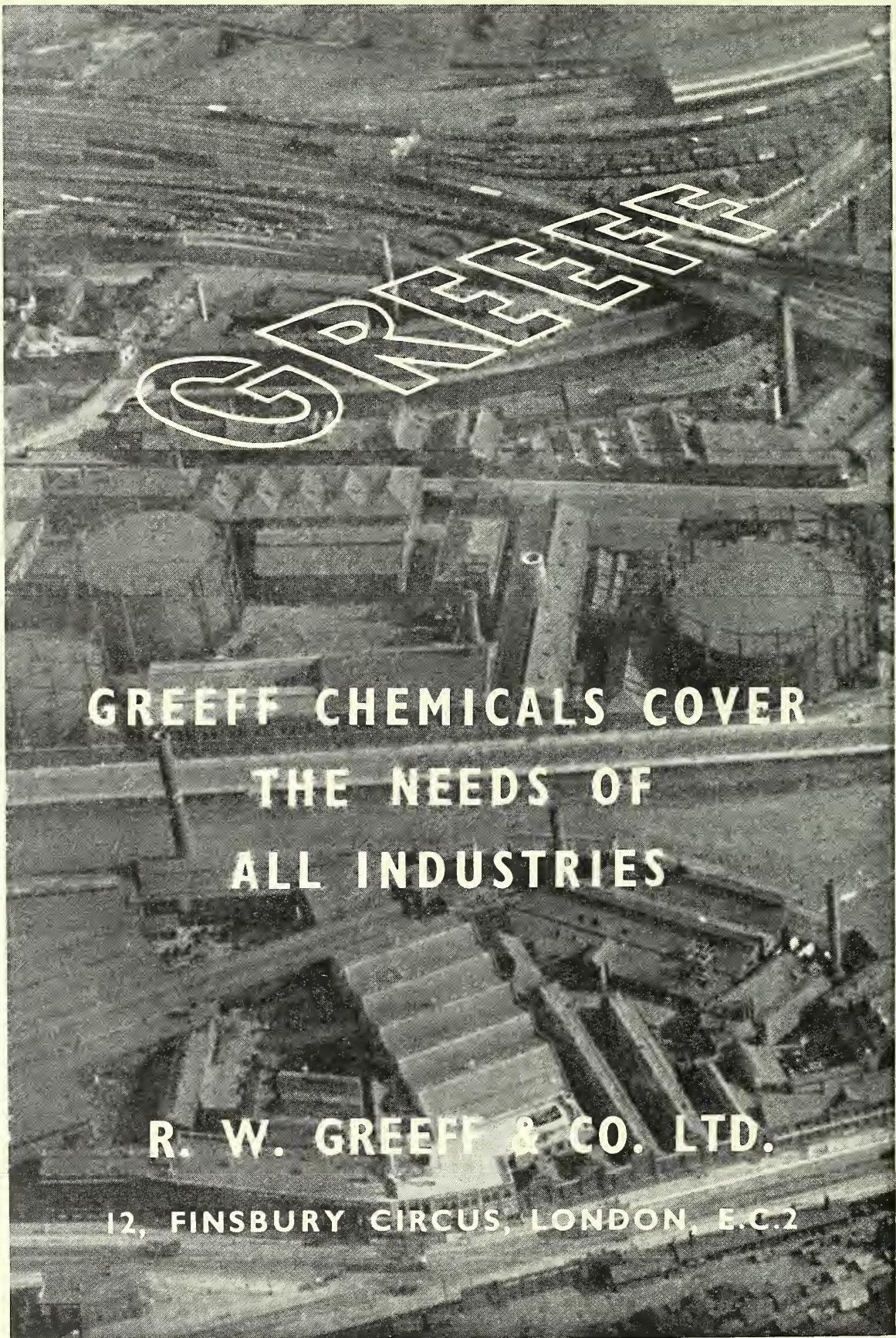
A. WANDER LIMITED

42 Upper Grosvenor Street, Grosvenor Square, London W.1

CANADA : A. Wander Ltd., Peterborough, Ontario. **AUSTRALIA** : A. Wander Ltd., Devonport, Tasmania. **NEW ZEALAND** : A. Wander Ltd., Christchurch. **INDIA** : Grahams Trading Co. (India) Ltd., 16 Bank Street, Bombay. **PAKISTAN** : Grahams Trading Co. (Pakistan) Ltd., P.O. Box 30, Karachi. **CEYLON** : A. Baur & Co., Ltd., Colombo.

T.40





**GREEFF CHEMICALS COVER
THE NEEDS OF
ALL INDUSTRIES**

R. W. GREEFF & CO. LTD.

12, FINSBURY CIRCUS, LONDON, E.C.2



*Children
take readily
the paediatric
forms of*

ACHROMYCIN*

TETRACYCLINE

Patients of the impressionable age rarely take kindly to 'medicines'. Yet their first impression of the paediatric forms of ACHROMYCIN is invariably gratifying, for the good taste of these products is as telling as their therapeutic efficiency. The paediatric forms of ACHROMYCIN include a tempting cherry-flavoured oral suspension . . . cherry-flavoured oral drops . . . and Spersoids† chocolate-flavoured Dispersible Powder—all of which transform the treatment into a treat. ACHROMYCIN is effective against a wide range of infections that commonly occur in children. Small doses normally suffice . . . side effects are minimal—added reasons why ACHROMYCIN suits the young so well.



ORAL SUSPENSION

Cherry flavoured
(250 mg. per 5 cc.)
1.5 Gm. in 1 oz. bottle

Also available as:

**CAPSULES · SOLUBLE TABLETS · TABLETS · INTRAMUSCULAR
INTRAVENOUS · OINTMENT · OPHTHALMIC OINTMENT**

*Regd. Trade-Mark

SPERSOIDS†

Dispersible Powder
(50 mg. per 3 Gm.)
Jars of 36 Gm. & 75 Gm.

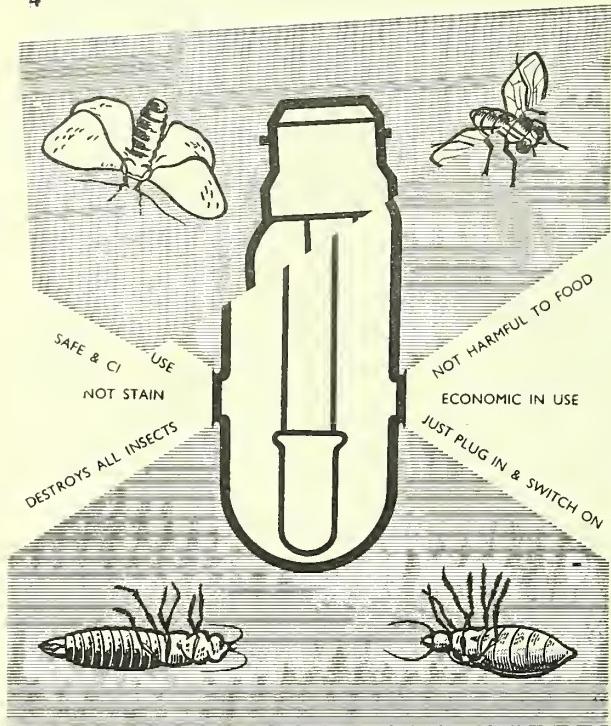
†Trade-Mark



LEDERLE LABORATORIES DIVISION

Cyanamid Products Ltd.

CUSH HOUSE · ALDWYCH · LONDON, W.C.2 · TEMPLE BAR 5411



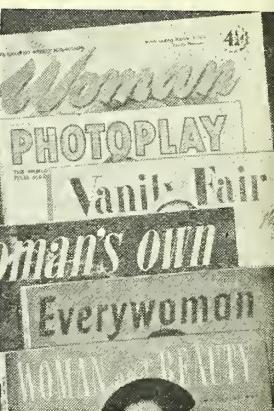
Kills all insects

Vulcan-O

ELECTRIC FUMIGATOR

The Vulcan-O Electric Fumigator is deadly to FLIES, MOTHS, WASPS, COCKROACHES, ANTS and other disease-carrying and ravaging pests. It can be fixed to any electric light holder. When switched on a heated vapour is continuously circulated killing all insect pests. It is harmless and inoffensive to humans and animals. Retail price 12/6d. including initial supply of Vulcasan-O tablets. Full particulars of trade terms from The Vulcan Fumigator Company Limited, 3 New London Street, London, E.C.3

*reading
about
TōNRINZ
in the
press*



*reaching
for
TōNRINZ
on your
counter*

*they send your sales
soaring every day !*

Throughout the pages of the national magazines, more and more Camilatone advertisements appear—catching the eye, exciting the imagination, and sending women in search of Tonrinz. With the inviting 'pyramid' display on your counter, their search will end in your shop.

Show them the Twin Pack as well—it's a combination of Camilatone shampoo and Tonrinz with the same variety of shades.

CAMILATONE
TōNRINZ

- ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★
- * TONRINZ : Retail Price 4½d. Trade Price 2/- per doz. plus 75% P.T. *
- * TWIN PACK : Retail Price 8½d. Trade Price 3/9 per doz. plus 75% P.T. *
- ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★

CAMILATONE LTD., EDGWARE ROAD, N.W.9

INDEX TO ADVERTISERS

Addis, Ltd.	49	Daniel, Richard, & Son, Ltd.	11
Andomia Products, Ltd.	42	Distillers Co. (Biochemicals), Ltd., The	13
Armour Laboratories, The	28	Duncan, Flockhart & Co., Ltd.	54
Associated Newspapers, Ltd. ... Interleaved Edit.,	624	Dyancse, Ltd.	40
<hr/>			
Beecham Foods, Ltd., 'Quosh'	29	Ephazone, Ltd.	48
Bell, John, Hills & Lucas, Ltd.	45	Evan Williams Co., Ltd.	52
Bencard, C. L., Ltd.	Cover ii	Evans Medical Supplies, Ltd. ... Interleaved Edit.,	623
Bengué & Co., Ltd.	56	F.A.I.R. Laboratories, Ltd.	57
Box, W. H.	44	Ferris & Co., Ltd.	Leader Page
Brannan, S., & Sons, Ltd.	38	Fish Optical Co., Ltd.	Leader Page
Brent, Martin, Ltd.	32	Freder Brothers Paper Mills	36
British Drug Houses, Ltd., The	11	Furman, B. N. (Productions), Ltd.	46
Brook, Parker & Co., Ltd.	44	Genatosan, Ltd.	15
Brown, Neville, & Co., Ltd.	12, 48	Golden, Ltd.	58
Burrough, James, Ltd.	Leader Page	Greeff, R. W., & Co., Ltd.	2
Burroughs Wellcome & Co.	31, 35	Hampshire, F. W., & Co., Ltd. (Dor)	53
Burson Elastic Stockings	26	Harker Stagg, Ltd.	54
Byrom Reagents, Ltd.	28	Hughes, E. Griffiths, Ltd.	7
Camilatone, Ltd.	4, 56	Hygienic Drinking Straws Co., Ltd. Leader Page	
Carnegies of Welwyn, Ltd.	5	Illingworth, E., & Co. (Bradford), Ltd.	33
Carr's Cereal Products, Ltd.	44	Ingram, J. G., & Son, Ltd.	30
Christy, Thomas, & Co., Ltd.	6	International Bottle Co., Ltd., The	20
Ciba Laboratories, Ltd.	34		
Colby, Ltd.	14		
Cooper Laboratory, Ltd., The	45		
Cox, Arthur H., & Co., Ltd.	8		
Cox, James, & Co.	51		
Cresswell Bros. Sponges	44		
Crookes Laboratories, Ltd., The	9		
Cussons Sons & Co., Ltd.	Cover iii		
Cuxson, Gerrard & Co., Ltd.	50		

(continued overleaf)

From the Carnegie Range of Fine Chemicals

METHOIN B.P.

CARNEGIES OF WELWYN LTD

Telegrams : 'CARNEGIES, WELWYN GARDEN CITY'

Telephone : WELWYN GARDEN 5001

(6 lines)

INDEX (cont.)

Jones, Samuel, & Co., Ltd.	38	Rankin Brothers & Sons	Leader Page
Kellys, John (London), Ltd.	14	Ransom, William, & Son, Ltd.	43
Kemball, Bishop & Co., Ltd.	57	Raymond (Art de Coiffure), Ltd.	50
Kemsales, Ltd.	28	Rayner & Co., Ltd.	24
Lederle Laboratories Division	3	Regna Cash Register Co., The	40
Macdonald & Son, Ltd.	8	Rentokil, Ltd.	32
Manesty Machines, Ltd.	47	Ribbands, C., & Sons	Classified Section
Matthews, Stephen & Co., Ltd.	36	Riddell Products, Ltd.	52
Menley & James, Ltd.	17	Ries, B. H., Ltd.	36
Modern Electrical Industries, Ltd.	40	Riley, John, & Sons, Ltd.	40
'Myers of Old Street'	Classified Section	Rose, J. L., Ltd.	40
Mysore, Trade Agent for	47	Samuelson, P., & Co.	30
National Cash Register Co., Ltd., The	39	Savory & Moore, Ltd.	14
'Nervone'	Leader Page	Secto, Ltd.	Leader Page
New Hygiene, Ltd.	38	Shadeine Co., The	48
Newton Chambers & Co., Ltd.	25	Solco, Ltd.	24
Nicholas Products Laboratories, Ltd.	16	Standard Synthetics, Ltd.	36
North British Rubber Co., Ltd., The	37	St. Andrew Mills, Ltd.	18, 19
Oliver's, William (Rubber), Ltd.	12	Sturge, J. & E., Ltd.	42
Oppenheimer Casing Co. (U.K.), Ltd., The	26	Tattoo Cosmetics, Ltd.	13
Optical Products, Ltd.	39	Townsend, James, & Sons, Ltd.	46
Optrex, Ltd.	Front Cover	Vacco, Ltd.	24
Orridge & Co.	Classified Section	Velvet Crepe Paper Co., Ltd.	10
Parnall & Sons, Ltd.	41	Vulcan Fumigator Co., Ltd.	4
Philips Electrical, Ltd.	27	Wander, A., Ltd.	1
Phoenix Photographics	37	Washington Chemical Co., Ltd., The	46
		Whiffen & Sons, Ltd.	21
		Wilcox, Jozeau & Co., Ltd.	Leader Page
		Windschuegl, Chas. H., Ltd.	Cover iv
		Wright, Layman & Umney, Ltd.	34
		Zing Pen Co., The	22, 23

*Recommended
for over 30 years*

Through the expressed enthusiasm of satisfied users, and the recommendations of pharmacists, the sales of Dr. Page-Barker's Scurf and Dandruff Lotion and D.43 Shampoo have been steadily increasing over recent years.

Make sure the public know you stock these firmly established treatments by displaying a Page-Barker showcard. Sent FREE on request.

THOS. CHRISTY & CO. LTD.
North Lane, Aldershot, HANTS.





An ORAL TREATMENT for the relief of HÆMORRHOIDS

HEMOTABS are tablets which are quick and easy to take. They constitute a completely new treatment for haemorrhoids. As no ointments or suppositories are required, the convenience and aesthetic appeal of HEMOTABS are obvious.

HEMOTABS not only bring soothing relief from the pain but, acting inside the body, they reduce the swelling and promote healing. They are also mildly laxative and help to restore easy action.

National Advertising for HEMOTABS

National Advertising for HEMOTABS begins in early June. Advertisements like the one on the right are now appearing in important national newspapers and magazines.

Make sure you stock Hemotabs

HEMOTABS retail at 2s. 6d. for a packet of 12 tablets. Cost per dozen packets to the trade is 19/- (ex. tax).

Supplies can be obtained direct from E. Griffiths Hughes Ltd., P.O. Box 407, Manchester, or through your usual wholesaler.

Hemotabs

HÆMORRHOIDS
an entirely new treatment



swallow this
tablet and relieve
the pain

Hæmorrhoid sufferers have long been looking for a form of treatment that brought lasting relief from the trouble and at the same time was clean and easy to use.

Hemotabs, an entirely new treatment, are the answer. You take them with a glass of water — just like you would an aspirin.

Hemotabs not only bring soothing relief from the pain and distress of attacks, but, acting inside the body, they reduce the swellings and promote healing. In addition, Hemotabs are mildly laxative, and help to restore normal actions, so important for full recovery and long-lasting freedom from pain.

HEMOTABS

Hemotabs cost only 2/6. Available from all Chemists

COX

for counter sales that keep custom

Land Sea Air
Travel Sickness Tablets

Available in 10 attractive
packaging styles including
Chemist's 'Own Brand' series.

ARTHUR H. COX & CO. LTD.
Manufacturing Chemists since 1839
BRIGHTON

**ORDER A
SUPPLY NOW**

of this attractive
Certor

HOLIDAY SATCHEL

5" x 7" x 9½"

THE CERTOR No. 3 Printed Counter Satchel is just what you need for the holiday months—an attractive satchel, printed in photogravure in three colours, which reflects the holiday mood. Deliveries from stock—place your order now!

Strung in 100s. Minimum quantity, 500.

PRICES PER 1,000				
500	1,000	5,000	10,000	25,000
18/8	18/3	17/11	17/6	17/-

PRINTED COUNTER SATCHELS also in the Certor range.

	500	1,000	5,000	10,000
CERTOR No. 1 5" x 7" x 9½"	18/4	17/10	17/4	16/9
CERTOR No. 1B 4" x 5½" x 7½"	12/8	12/4	12/-	11/8
CERTOR No. 2 5" x 7" x 9½"	—	18/9	18/6	18/3
CERTOR No. 2B 4" x 5½" x 7½"	—	13/6	13/3	13/-

These four satchels can be printed with your own name at small extra cost.

Full range of wrapping and display papers for the pharmacy.



If it's paper or made with paper get it from
MACDONALD'S OF MANCHESTER

MACDONALD & SON LTD · HOPE MILLS · POLLARD STREET · MANCHESTER 4

An entirely *NEW* product

BY THE CROOKES LABORATORIES LIMITED

CROOKES Personal Blend

LIQUID CREAM FOUNDATION

that the user blends herself

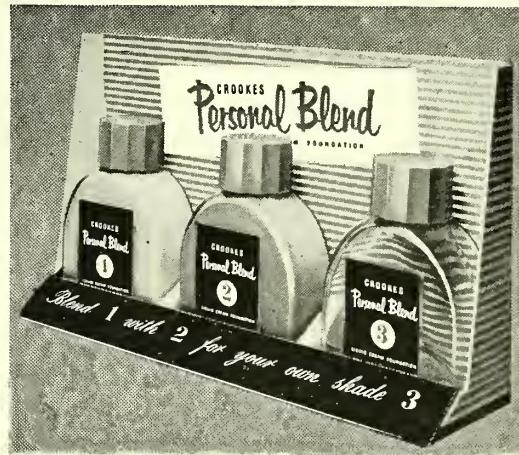
PERSONAL BLEND, a revolutionary idea in the cosmetic world, is a liquid cream foundation that the user blends herself to her exact requirements. There is a set of three bottles—one containing a light shade of cream, the second a dark shade. To match her exact colouring, the user blends the light and dark shades in the required proportions in the third bottle.



This half-page advertisement will be appearing in the DAILY EXPRESS on 24th June and will be seen by over 5,000,000 women. Extensive advertising is also being carried out in the DAILY MIRROR and the leading women's magazines.

The Set retail price—13/6d. (9/- plus 4/6 P.T.). Single carton retail price 6/9d. (4/6 plus 2/3 P.T.) Retail discount 33½%.

* Catherine Boyle, of T.V. fame, gives her unqualified support to this exciting new product and appears in all advertisements and display material.



During the introductory period, May, June and July, PERSONAL BLEND will be invoiced on a Sale or Return Basis.

SOLD ONLY THROUGH CHEMISTS

*

Full details
have already been mailed to you

Post off your order now

Price Cut

ON 'VELVET' POCKET PACKS!



Your
price for
Velvet Tissue
Pocket Packs
has been cut to 2/8d. per dozen.
Selling price remains the same—4d. per pack.



NOW 2'8 PER DOZ.

VELVET CREPE PAPER CO. LTD.

Alperton, Middlesex.

AMPOULES

of
INJECTION
SOLUTIONS

Price List on
application

A FULL RANGE
IN ALL SIZES
MANUFACTURED

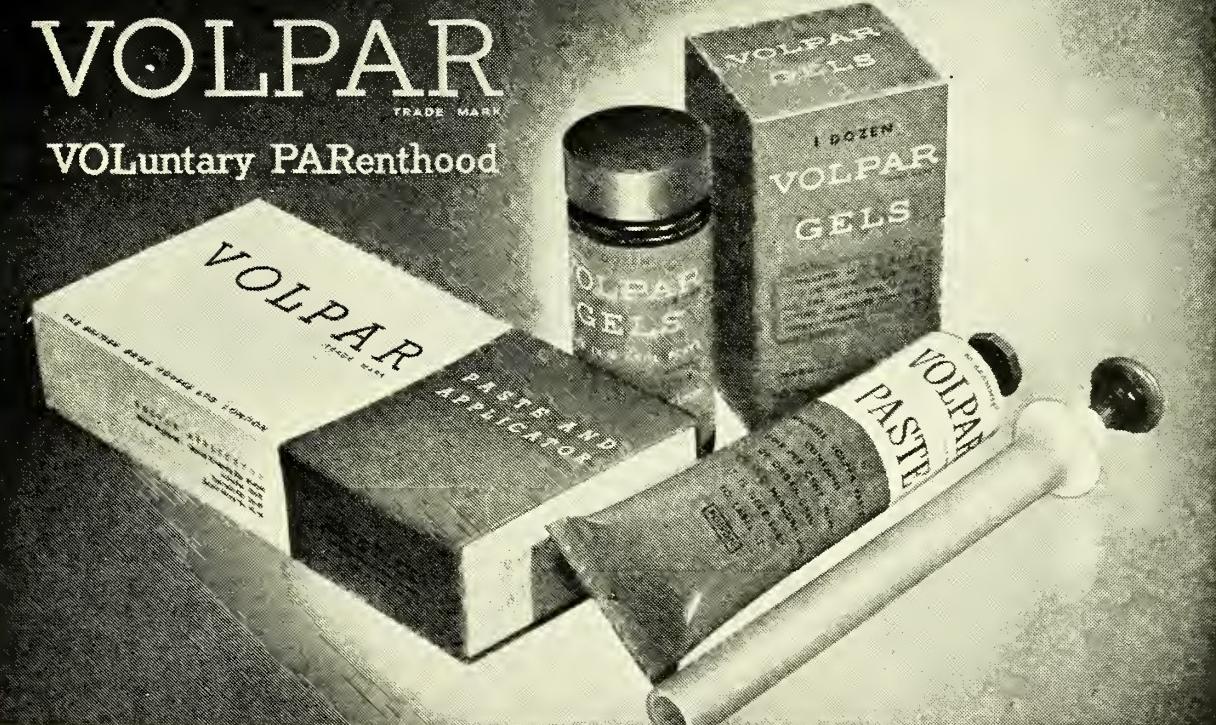
BY

RICHARD DANIEL & SON LTD

MANSFIELD ROAD, DERBY

TEL: 48266 (4 lines)

Also at ASHTON-UNDER-LYNE



Volpar Gels Bottle of one dozen — Pharmacists 1/8 Retail 2/6 ★ Volpar Paste Collapsible tubes — Pharmacists 1/8 Retail 2/6

Volpar Paste and Applicator — Pharmacists 4/- Retail 6/-

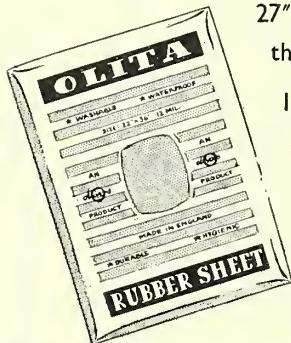
THE BRITISH DRUG HOUSES LTD. • LONDON • N.I

Olita rubber cot sheets

THESE fine quality, hard-wearing rubber sheets are available in two standard sizes in pink, white or blue. Waterproof and thoroughly hygienic they are packed in attractive Olita display envelopes.

Sizes 22" x 36" x 12 thickness.
27" x 36" x 15 thickness.

In plain boxes each containing one dozen.



Prices and samples obtainable from :

WILLIAM OLIVER'S (RUBBER) LTD.

Blackhorse Lane, London, E.17. Telephone : LARKSWOOD 8811

Available through your wholesaler or for export

TAB 4



Amazing Value!

F/2·8 Steinheil-Cassar lens
Prontor S.V.S. Shutter, Lever Wind
for £19·19·0

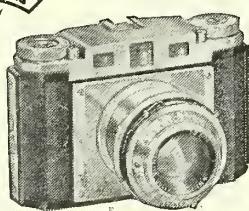
Manufactured by the makers of the famous Paxette, the Gloriette takes 35mm. film and is fitted with Steinheil - Cassar f/2.8 lens, lever-wind, delayed action device, flash synchronised S.V.S. shutter, body release, etc.

Display stands and leaflets available to stockists.

GLORIETTE

with 8-speed Prontor S.V.S. shutter £19·19·0
with 4-speed Pronto shutter £17·17·0

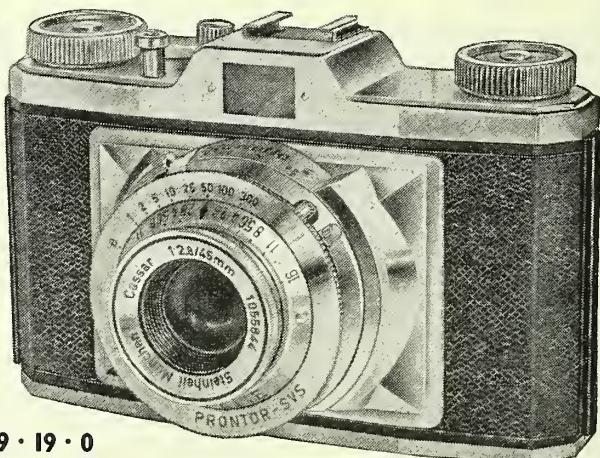
BRAUN
NUREMBERG
GERMANY



GLORIA 2½" x 2½"
Rangefinder Camera
Pronto 4-speed £18·18·0
Prontor S.V.S. £21·17·6



PAXINA 29 2½" x 2½"
Pronto 4-speed £14·14·0
Prontor S.V.S. £17·17·0



PAXETTE 1 35 mm. £21·17·6
PAXETTE 1m 35 mm. £24·15·0



NEVILLE BROWN & CO., LTD.
77 NEWMAN STREET, LONDON, W.1 Tel.: LANGHAM 7161 (10 lines)

DISTRIBUTED
by
NEBRO

5 day advertising

Up goes the sales graph! And riding on the peak comes your new 5 Day advertising support - over one hundred per cent. increase this year. Starting June, this big new campaign sells the *5 Day way* to ensure personal freshness . . . 5 Day speed, 5 Day convenience, 5 Day effectiveness - the three beat-'em-all points of this fastest-selling deodorant. Stocks are ready now - get them and you will sell them! *Trade Terms and Prices:* 5 Day Sticks (retail price 1s 9d) - 9s 4d per dozen. 5 Day Pads (retail price 1s 9d and 3s) - 9s 4d and 16s per dozen respectively. 5% Display Discount on orders for 3 dozen, in complete dozens, mixed as you wish.

DOUBLED!



They'll see these advertisements. They'll buy from these displays!

We're doing our part! . . . will you do yours?

Sole distributors : FASSETT & JOHNSON LTD 86 CLERKENWELL ROAD LONDON EC1



Savory & Moore

. . . the facility of buying Savory & Moore high quality Pharmaceutical Products locally is not without its attractions to "more discerning" customers—the customers who form the backbone of your "goodwill." A display based on the following list of regularly advertised specialities will forge many a link of enduring patronage.

DR. JENNER'S

Absorbent Lozenges for Indigestion

MEDILAX

Laxative Pellets

DENTURAL

Liquid Denture Cleanser

QUINASP

Influenza Capsules

TAYLOR'S CIMOLITE

The perfect Talcum Powder

CHILDREN'S BLACK Currant Linctus

Children love its pleasant taste

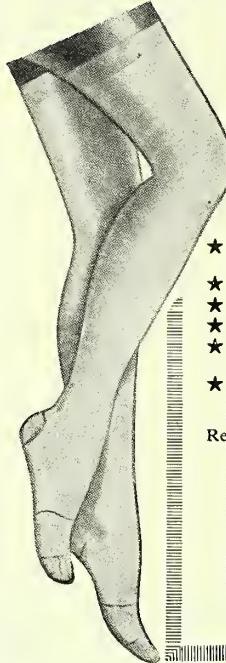
Write for particulars
of bonus display terms



Savory & Moore

Standard Works, Lawrence Rd., Tottenham, N.15

COLBY Nylon NET or cool, light Cotton NET



SURGICAL STOCKINGS

also in nylon yarn, lastex yarn.
Individually designed.

OFFER YOUR CUSTOMERS COLBY'S PERSONAL SURGICAL HOSIERY SERVICE.

- ★ Customers are attracted by Colby display material in your window, on your counter.
- ★ Customers place their order with you.
- ★ You fill in and post the order form.
- ★ We send you customer's exact needs.
- ★ You complete the sale—and pocket the generous profit margin.
- ★ The Colby system brings customers into your shop twice—two chances for making additional sales!

Remember, too—

You've no capital outlay on stocks.
No shelf space is taken up.
No risk of sales losses through being "temporarily out of stock".

Send today for attractive, eye-catching window display cards, counter leaflets, price lists and order forms.

Write to

COLBY

SURGICAL ELASTIC HOSIERY

(DEPT. C.D.), 314 EUSTON ROAD, LONDON, N.W.I.

HOME TRADE

JKL

EXPORT

QUILLAYA

BUCHU

RAUWOLFIA Serpentina Benth

and all other Botanicals, Gums,
Waxes, Essential Oils and Spices

JOHN KELLYS (LONDON) LTD.
24 OLD BROAD STREET, E.C.2

Telephone: LONDON Wall 6585 (4 lines)
Telegrams: "Ergotine, Stock, London"

NEW YORK • HAMBURG

Sebbix

the new medically recommended shampoo that deals with **DANDRUFF**

Here is a simple, effective and economical treatment for dandruff, which can be sold with complete confidence, as it is absolutely safe to use. Sebbix is an excellent general shampoo.

Its rich, creamy lather penetrates the thickest hair and leaves it in a readily manageable condition.

DOCTORS RECOMMEND SEBBIX SHAMPOO

which contains purified fractions equivalent to 2% coal tar and hexachlorophene 1% in a specially formulated soapless shampoo base.

SEBBIX SHAMPOO answers a universal need and opens the door to a large market for the chemist. Make that market yours. Stock, display and sell Sebbix shampoo.



safeguards
family
hair
health.

Retail Price : Bottle for 6-8 good shampoos 3/2 including Purchase Tax.

Trade Price : 23/- per dozen, subject to the usual discounts.

GENATOSAN LIMITED

Loughborough, Leicestershire



IMPORTANT ANNOUNCEMENT

The entire business of

LIFEGUARD *

PRODUCTS LTD.

has been acquired by

NICHOLAS PRODUCTS LABORATORIES LTD.

a member of the Aspro Group

71-76a BUCKINGHAM AVENUE, SLOUGH



LIFEGUARD DISINFECTANT

LIFEGUARD TOILET ROLLS

LIFEGUARD INTERLEAVED TOILET PACK

*and all other quality products included in the
Lifeguard range*

THERE'S A POWERFUL NEW DRIVING FORCE BEHIND LIFEGUARD PRODUCTS
STOCK WELL, DISPLAY WELL, SELL WELL

**For highest peak concentrations
and sustained therapeutic effect**

'ESKACILLIN'

THE PALATABLE LIQUID ORAL PENICILLIN

.....
'ESKACILLIN' 300

'ESKACILLIN' 200

'ESKACILLIN' 100

'ESKACILLIN' 100 SULPHA

.....
'Eskacillin' 300 is available in 1½ fl. oz. (42 ml.) bottles. All other 'Eskacillin' preparations are available in 2 fl. oz. (56 ml.) bottles. The number after the name indicates the strength in thousands of units per standard medical teaspoonful (1 fl. drachm : 3·5 ml.)

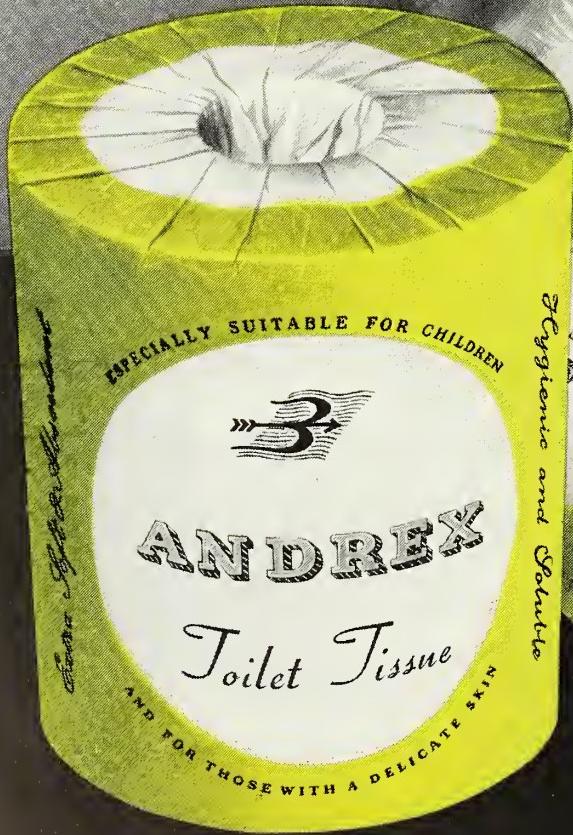
MENLEY & JAMES, LIMITED, COLDHARBOUR LANE, LONDON, S.E.5

Tel : BRIxtton 7851

for *Smith Kline & French International Co.*, owner of the trade mark 'Eskacillin'



HERE'S A PROFIT



A BOWATER PRODUCT BRITISH MADE AT ST. ANDREW MILLS

Andrex is Nationally Advertised throughout the year

Andrex advertisements — many in full colour — are seen by millions in one of the largest campaigns ever for toilet tissue. Display Andrex today and take *your* share of the bigger business.

**You make 4^{*}d on every roll
and double that on the double pack**

Andrex is the largest selling soft tissue roll in the country and public demand is increasing all the time.

* Actually 3½d.

MAKING OPPORTUNITY FOR YOU!

**Free! to all Andrex
stockists** * * * *

Display your stocks of Andrex products in this sales compelling wire basket.

Entirely free from your wholesaler.

*Size: 41" high × 16" deep × 18" wide.
(Colour: Royal blue, yellow and black).*

Order extra stocks today from your wholesaler

Single Pack 1/3 each Trade 11/1 a dozen
Double Pack 2/4 each Trade 20/2 a dozen





THE
INTERNATIONAL
BOTTLE CO. LTD.

*Designers and Manufacturers of
High Quality Glassware*

METAL AND COLOURED PLASTIC CLOSURES
RUBBER AND POLYTHENE CHEKALEKE PLUGS

140, PARK LANE, LONDON, W.I.

TELEPHONE: MAYFAIR 6992

TELEGRAMS AUTREFOIS, AUDLEY LONDON



The lady's using
Ol. Amygdalæ Dulc. Ang. B.P.

ALMOND OIL has many applications; brilliantine and hair oils, skin preparations, and ear drops. It is widely used in face creams and cosmetics. Get all you want easily and quickly from Whiffens.

WHIFFENS  *suppliers of fine chemicals
for more than 100 years*

WHIFFEN & SONS LTD., NORTH WEST HOUSE, MARYLEBONE ROAD, LONDON, N.W.1
TELEPHONE: PADDINGTON 1041/9. TELEGRAMS: WHIFFEN, NORWEST, LONDON

ZING!

...a good
**retractable
ball pen that
only costs 1/-**



Over 50% profit on every sale!



ZING

A new sales story !

A good retractable ball pen, in an attractive colour range, for only 1/- ! Zing can be so cheap because it has no refill. For the same price as an ordinary refill, you sell your customer a *whole new pen*. So Zing sales repeat themselves many times. Over 50% profit on every sale !

ZING

A new market !

Zing takes its place beside the other necessities of life — in the market with the *highest* sales. Like pencils, toothpaste, paper hankies, you buy it — you use it — you throw it away. And Zing adds *pen* advantages to its pencil price and sales frequency. It writes smoothly and evenly. It makes carbon copies with typewriter clarity. It doesn't fade. With Zing, *your market is everyone who writes*.

ZING

Top support for you !

Throughout the year, Zing will be powerfully advertised in the following papers — papers with a total circulation of 43½ million !

Daily Express	Sunday Dispatch
Daily Herald	Radio Times
News Chronicle	Weekend Reveille
Daily Mirror	Midweek Reveille
News of the World	Weekend Mail
People	

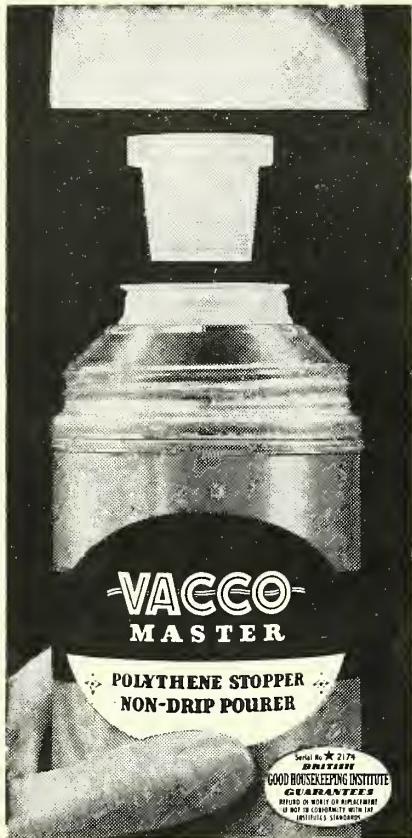
Large-space advertisements will include : $\frac{1}{2}$ pages in the Radio Times, Daily Mirror, Daily Express; spaces 13" by 9" in the Daily Herald and News Chronicle. Provincial advertising, cinema promotion and London busfronts will make sure everyone knows about Zing — and when they know about it, they'll be *buying* it !

BRIGHT NEW DISPLAYS !

Striking showcards and window bills promote Zing right where it sells.



**Order from
your wholesaler
NOW**



NOW COMES THE VACCO MASTER



You know the TEA FLASK (with built-in milk bottle). A Vacco winner. Now comes Vacco's new Standard Flask. Called the **MASTER**. Because it is the **MASTER**. Of all standard flasks.

Master Colours

Imagine the polychromatic 'glint' of the most expensive car you ever set eyes on. There you have the **MASTER** finish.

3 colours: Gunmetal Grey, Lustre Red, Sapphire Blue.

And Polythene Stopper

Clean, durable, insulated. Hygienic as a clinic. Another top selling feature of the new Vacco **MASTER**.

And Polythene Pourer

It looks clean. It keeps clean. It's non-drip. Integrally fitted, it gives a watertight seal.

And resilient mounting

The base is rubber-lined. The top 'collar', resilient polythene. Ideal bottle suspension with maximum bottle resilience.

5/11 retail · 53/3 dozen

Supplied in 3 colours assorted. Individually packed in illustrated cartons. Standard capacity 16 fluid ozs.

The value (when you add everything up) is the best in standard flasks today!

3 Vacco Masters all in a row see how that *finish* steals the show!

STOP

Here's the clever display crowner that shows off the **Master** polythene stopper and pourer. Watch out for Vacco Spring-into Summer Advertising.



VACCO LIMITED · GROSVENOR GARDENS HOUSE · LONDON S.W.1

SOLCO Ltd.

Basle · Switzerland

well known for their drugs

Antibiotics
Chemotherapeutics
Hormones
Vitamins
and other preparations
are launching an entirely
new product fighting efficaciously
RHEUMATISM

This is a drug on a gold basis, without secondary effects, presented in form of pills under the registered trade name

AURUBIN

Sole agencies for a few countries still open
SOLCO LTD.

II Zücher strasse · Basle · Switzerland

For acidosis...
recommend
Rayner's Lembar
all the year
hot or cold



Lemons
Glucose
Scotch Barley
Sugar

MADE BY RAYNER AND COMPANY LIMITED, LONDON, N.18



Due to increased cost of raw materials we are reluctantly compelled to revise the prices of **IZAL TOILET ROLLS** from 1st June, 1955.

The new prices are as follows:-

TRADE PRICE 133/- PER GROSS

RETAIL PRICE 1'2d PER ROLL

REGISTERED TRADE MARK

HYPAKBRAND
POLYTHENE**Nursery
Bags**

*Build
"bonny sales"
for you!*

Hypak Nursery Bags keep Baby's feeding utensils, clothes, toys and bed linen completely protected from all germs, dust, dirt and dampness. They're ideal too for carrying soiled nappies and clothes when travelling or visiting.

Mothers have been quick to realise the advantages of this new profit-making line which is building record sales in Chemists everywhere. Retail price is 4/9 per pack.



Packed in an Attractive Carton

Other **HYPAK** Quick Selling lines.**● FOOD SAVER & STORAGE BAGS**

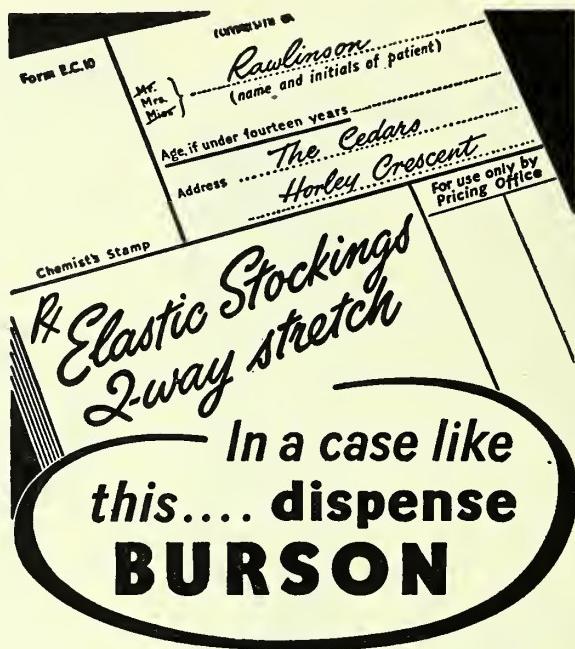
6 Bag Pak—Price 2/6. 3 Bag Pak—Price 1/9.

● LUNCH BAGS 6d. each.**● BOWL COVERS** 3 piece Pak—Price 2/9.

Post this Coupon today

To HYPAK Division of The OPPENHEIMER CASING Co. (U.K.) Ltd., 159-165 Harrow Road, London, W.2 (insert Retailer or Wholesaler)
As a I am interested In HYPAK Nursery Bags.
Name
Address
(C&D 4/6/55)

Scottish Sales Depôt: Thorneybank, Fountainbridge, Edinburgh, 3
Telephone: Fountainbridge 1403



Burson Stockings, made exclusively on special knitting looms, are the product of ten years' intensive research into the making of surgical stockings.

Always dispense and recommend Burson 2-Way Stretch Hosiery and ensure your customers' complete satisfaction. The quality—finish—colour and durability of Burson Hose make them the first choice of those who appreciate the best. Burson Stockings are fully fashioned and virtually indiscernible in use.

Burson Stockings are advertised in the Medical Journals and in a strong list of National Weekly Newspapers and Women's Magazines.

**DISPENSE BURSON whenever
2-way stretch elastic or
Lastex hosiery is prescribed**

—————
AVAILABLE FREE ON REQUEST WITH BURSON STOCKINGS:

- Instruction Chart with details for measuring, fitting and exact adjustment to fit and tension.
- Individual Measurement and Order Forms.
- Instructions for mending and washing.

BURSON
TWO-WAY STRETCH HOSEIERY
IS MADE FROM LASTEX YARN

Sole Distributors:—FASSETT & JOHNSON LTD.,
86, CLERKENWELL ROAD, LONDON, E.C.I

JUST STARTED

Rotary Action

will be the
attraction
of the
'Philishave'
campaign...

We give you ample notice—never before has there been so strong a sales story so extensively advertised!



NATIONAL NEWSPAPERS

NATIONAL MAGAZINES

MEN'S MAGAZINES

PROVINCIAL NEWSPAPERS

RADIO LUXEMBOURG

... which reach approx. 95% of the entire male population of Great Britain

POSTERS · EXHIBITIONS

and agricultural shows all over the country

SHOWCARDS · LEAFLETS · ETC.

**SO—stock up
display
demonstrate**

and you're bound to sell more 'Philishaves' than ever before! Send for leaflets, display material—all you need—NOW.

PHILIPS
PHILISHAVE

THE DRY SHAVER WITH

Rotary Action



A PRODUCT OF PHILIPS ELECTRICAL LIMITED
(PS 596)



Now in GREAT DEMAND!

Byrom's "Chick-Chick" Egg Shampoo is now available in Sachets to meet the demand from discriminating women who prefer the Shampoo which is so kind to the hair. You can recommend it to your customers for its great cleansing and conditioning qualities—especially where the hair is impoverished by excessive permanent waving or where the hair is of exceptionally fine texture.

Specially packed in an attractive three-colour "sell on sight" Display Unit containing 4 dozen sachets to retail at 7½d. each including tax, trade price 5d. Put it on your counter and put 10/- profit in your pocket.

IN SACHETS — 7½D.

Trade price: Boxes of 4 dozen 20/- including tax.

Wholesale and retail enquiries to:

BYROM REAGENTS LTD.
130A Larkhall Lane, London, S.W.4 Macaulay 3210



WATCH OUT FOR THE ADVERTISEMENTS IN THE PRESS!

Be ready to benefit from the large scale advertising designed to create sales for you

A NIDAR

QUADRUPLE BARBITURATE TABLET
OFFERS SEDATION WHEN NEEDED
WITHOUT DROWSINESS

Each Tablet Contains :-

SECOBARBITAL SODIUM	gr. $\frac{3}{8}$
PENTOBARBITAL SODIUM	gr. $\frac{3}{8}$
BUTABARBITAL SODIUM	gr. $\frac{1}{8}$
PHENOBARBITAL	gr. $\frac{1}{8}$

•
BOTTLES OF 50, 100 and 1000

•

Write for Literature to

THE ARMOUR LABORATORIES
(ARMOUR & COMPANY LTD)

HAMPDEN PARK, EASTBOURNE, SUSSEX

Telephone : Hampden Park 740

Telegrams : Armolab Eastbourne

The Hay fever season is upon us.

Win more sales

and your customers' gratitude
by recommending

BESORBON

REGD. TRADE MARK

MEDICINAL SNUFF

the proved remedy

*Your wholesaler can supply you
promptly. Orders of one dozen
come in attractive counter
display box for*

MORE SALES — MORE PROFIT

KEMSALES LTD., 20 EASTCHEAP, LONDON, E.C.3

CALLING ALL CHEMISTS!



buy the NEW

Quosh

FRUIT SQUASH

Made by Carters of Coleford
the **Ribena** People

With Juice from SUN-RIPENED FRUIT
under strict scientific and hygienic control.

MINIMUM PROFIT

7½

per bottle

plus special quantity and
Window Display allowances

**MASSIVE CONSUMER
ADVERTISING CAMPAIGN**

55,000,000

advertisements a month

**Quosh is delicious -
it REFRESHES SALES!**

Order NOW! — from our Representative when he calls.
Let him help you with attractive SELLING Show Material.

For further information write or 'phone to

BEECHAM FOODS LIMITED, GREAT WEST ROAD, BRENTFORD, MIDDX.

Telephone: Ealing 7711



DAQ/5510T

E

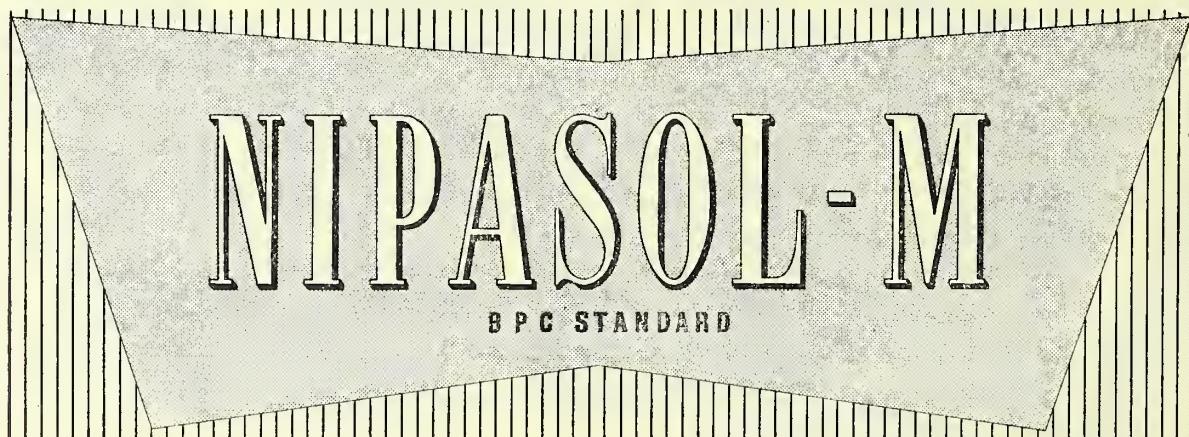
Put these on your counter and see how they sell

These are the feeding bottle teats with the name every mother knows. Show them in this eye-catching display carton—and see them go! Ingram's Spiral Band teats are made from finest latex rubber; last longer, even with constant sterilization. And they incorporate the exclusive patented Spiral band which *grips tight* to the neck of the bottle and prevents mess and mishaps.

Ingram's
SPIRAL TEATS



Styles 1, 2, 3 and 4 in attractive display cases of a dozen, and SPIRAL BAND VALVE TEAT individually packed. All styles included on P.A.T.A. list. Obtainable from your Wholesaler. In cases of difficulty write to: J. G. Ingram & Son, Ltd, The London India Rubber Works, Hackney Wick, E9



The original British made preservative and antiseptic with its wide use for pharmaceutical and cosmetic products.

*Our Service Dept. will gladly co-operate
with you on all technical problems.*

NIPA LABORATORIES LTD
TREFOREST INDUSTRIAL ESTATE
Nr. CARDIFF TEL: TREFOREST 2128/9

Sole Distributors for the United Kingdom

P. SAMUELSON & CO., ROMAN WALL HOUSE, I CRUTCHED FRIARS, E.C.3. Telephone: ROYAL 2117/8



MALARIA-a bar to progress

Increasing evidence from endemic regions indicates that 'Daraprim' can play a major part in eradicating malaria. This new drug has proved an excellent suppressant in a dosage of one product once a week; when administered under supervision to an entire community it has been shown capable of breaking the malarial cycle. 'Daraprim' is tasteless and well tolerated; it causes no discolouration of the skin. It is supplied as compressed products of 25 mgm., in packs of 6, 30, 250 and 1000.

'DARAPRIM'

PYRIMETHAMINE

BRAND

Issued in the French Union and in Tunisia and Morocco as 'Malocide' brand Pyrimethamine



BURROUGHS WELLCOME & CO. (THE WELLCOME FOUNDATION LTD.) LONDON

ASSOCIATED HOUSES: NEW YORK • MONTREAL • SYDNEY • CAPE TOWN • BOMBAY • BUENOS AIRES • CAIRO • DUBLIN • AUCKLAND

STOCK THE recognised fluid

FOR QUICK SALES

RENTOKIL

TIMBER FLUID

KILLS WOODWORM

Recognised by the Public, Industry and Trade alike as the sure and safe fluid which not only kills beetle, grub and eggs but protects against future attack. The public is being told in the National Press to look for the tell-tale flight holes and come to you—so stock now for the steady demand.

RENTOKIL LTD. (CD), FETCHAM, LEATHERHEAD, SURREY



SPECIAL OUTFIT

Comprising 16 oz.
R.T.F. and injector.

RETAILS AT

10/6

May we phone you?

MARTIN BRENT LIMITED

BERESFORD AVENUE, WEMBLEY

Tel: WEMBLEY 2113

OFFER DAILY DELIVERY IN THE MIDDLESEX AREA

We phone daily—

We deliver daily

PERSONAL SERVICE OUR SPECIALITY

COMPREHENSIVE STOCKS OF DRUGS, PATENTS, ETHICALS, COSMETICS, SUNDRIES, ETC.

E.

Illingworth & Co (BRADFORD) Ltd

Shelf Mills, Shelf, nr. Halifax, Yorkshire

Tel: Low Moor 400 (4 lines) Grams: "Ilmond," Bradford

COTTON WOOLS

B.P.C. Quality Cotton Wools

Hospital Quality Cotton Wool
(Drug Tariff.)Sterilised and Unsterilised,
in all weights, for home and export
Quantities labelled with your own labelsCotton Wool Dispenser
(Pleated Filling, Attractive Carton)BOTTLE NECK WOOL
FILTER PADS
WOOL & COTTON TISSUE
B.P.C. QualityRESPIRATOR REFILLS
KNITTED BANDAGES

PACKING MATERIALS

NEEDLELOOM FELTS

For thermal, sound and vibration
insulation and protection.

COTTON WOOLS

Bleached and Unbleached Rolls from 2 in.
to 40 in. wide, weights 3 oz. per sq. yd.
upwards.

THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and
all sections of the drug, pharmaceutical and
fine chemical, cosmetic, and allied industries*Official organ of the Pharmaceutical Society of Ireland
and the Pharmaceutical Society of Northern Ireland*

Volume 163

June 4, 1955

No. 3928

CONTENTS

Antihæmophilic Globulin ...	619
Branch and Association Meetings ...	613
Figures in the Pharmaceutical World—30 ...	615
Foundation of Quantitative Analysis	621
Guide to New Medicaments ...	622
Instruments and Apparatus ...	610
Leading Articles:—	
Practical Help for the Truss Fitter	617
What to Pay a Wife Now	617
The C. & D. and the Rail Strike ...	617
Local Dinners and Dances ...	612
N.H.S. Accounts ...	607
New German Proprietaries ...	622
Onward from Galen ...	618
Recent Scientific Research ...	607
Report on Drug Contracts Scheme	606
Topical Reflections ...	605
British Fine Chemicals	618
Business Changes	608
Coming Events	628
Company News	608
Correspondence	618
Deaths	609
Election Successes	609
Information Wanted	616
Inquests	609
Legal Reports	608
Local Officers	628
Miscellaneous Inquiries	622
New Products	611
P.A.T.A.	628
Personalities	609
Photographic Notes	610
Price Changes	628
Print and Publicity	627
Trade Marks	628
Trade Notes	611
Trade Report	626
Wills	627
World Trade	625
Zanzibar Cloves	625

INDEX TO ADVERTISERS, Pp. 5 & 6.

EDITORIAL AND PUBLISHING OFFICES
28 ESSEX STREET, STRAND, LONDON, W.C.2
Telephone: Central 6565

Telegrams: Chemicus, Estrand, London

Branch Offices:

BIRMINGHAM, 2: 111 New Street.

Phone: Midland 2921

GLASGOW: 24 Dixon Road, S.2. LEEDS, 16: 32 Wynford Rise.
Phone: Pollock 4802 West Park. Phone: Leeds 78438ANNUAL SUBSCRIPTION, which includes The Chemist
and Druggist Diary and Year Book, £2. Single copies
one shilling each.

THERE'S NEVER BEEN A SOAP LIKE WRIGHT'S

For

50

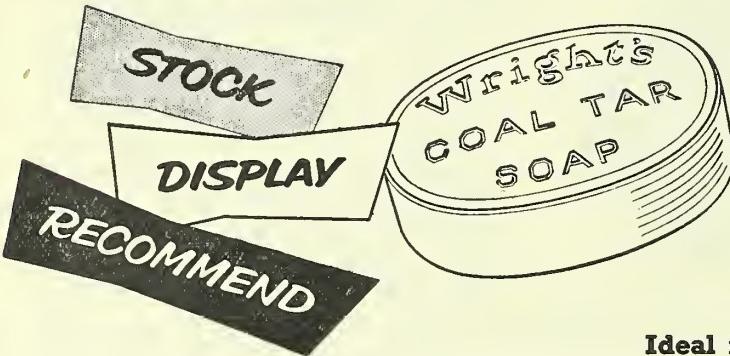
years awarded the

CERTIFICATE OF MERIT

of the Royal Institute
of Public Health and Hygiene

Research in raw materials and
germicides, with constant modernization

of mechanical production, ensures the
continually improving quality
demanded by the Certificate



**WRIGHT'S
COAL TAR SOAP**

Ideal for Toilet, Bath and Nursery

NEW DEVELOPMENT IN ANTICHOLINERGIC THERAPY

Antrenyl

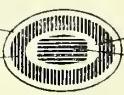


A SINGLE tablet with TWO PHASES of activity

DIAGRAMMATIC REPRESENTATION

sugar coating

INITIAL DOSE OF
5 mg. ANTRENYL



acid resistant membrane
which disintegrates in
the small intestine

SECOND DOSE OF
5 mg. ANTRENYL

Two tablets daily provide four spaced doses for the relief of
gastro-intestinal pain, particularly nocturnal pain in peptic ulcer

10 mg. Antrenyl 'Duplex' tablets in bottles of 25 (9/-), 100 (33/6), and 500 (164/-)

Subject to the usual discounts. Exempt Purchase Tax

Antrenyl is a registered trade mark denoting 2-diethylaminoethyl- α -cyclohexyl- α -phenylglycollate methobromide. Reg. user.

CIBA LABORATORIES, LTD., HORSHAM, SUSSEX

C I B A Tel: Horsham 1234 Grams: Cibalabs, Horsham.



The CHEMIST AND DRUGGIST

Volume 163

JUNE 4, 1955

No. 3928

Chemists and the Rail Strike

EMERGENCY ARRANGEMENTS FOR SCRIPTS AND SUPPLIES

SPECIAL arrangements have been made by the National Pharmaceutical Union and many Pharmaceutical Committees for sending chemists' bundles of EC10 prescriptions to the pricing offices to meet the emergency caused by the rail strike, in view of the 8-oz. limit imposed for postal packets.

The Joint Pricing Committee has decided, with the approval of the Ministry of Health, that contractors shall send their May prescriptions to the bureau to which they are currently attached.

Special arrangements for the Croydon, London, Middlesex and Surrey Pharmaceutical Committee areas are set out below. Other Pharmaceutical Committees may be making similar arrangements if they consider it necessary or desirable to do so. The N.P.U. considers that if special expenditure is incurred in making arrangements for special delivery to the bureau, and the arrangements are available to all contractors in the area, the expenditure may be properly charged to the Pharmaceutical Committee funds instead of attempting to share it out *pro rata* among those making use of the arrangement.

In the remainder, prescriptions will have to be posted in separate postal packets, none weighing more than 8 oz. Each of the separate postal packets should have included with it a note on the contractor's headed notepaper or on a slip label that it is one of a specified number of such packets, e.g., "X Forms; Y Prescriptions herewith; balance of May 1955 prescriptions sent in other packets."

The invoice should be included in packet number one.

Obtaining Medicines by Post

The N.P.U. has made representations to the Ministry of Health and the Association of the British Pharmaceutical Industry about the difficulties likely to be experienced by chemist contractors in obtaining urgently required medicines by post. At present there is no indication that the ban on packets weighing more than 8 oz. will be relaxed. Contractors are advised to buy locally wherever possible.

In London and Middlesex Executive Council areas collecting centres have been organised at which chemist contractors are asked to deliver their bundled prescriptions at the times stated — preferably by hand. The bundles are being picked up by lorry from the depots on Tuesday, June 6, and taken by road to the Pricing Office in Newcastle-on-Tyne.

The collecting centres are:—

LONDON

Bethnal Green Town Hall.
Holborn Town Hall.
Kensington Town Hall.
Lambeth Town Hall.
Lewisham Town Hall.
St. Pancras Baths, Prince of Wales Road, N.W.5.
Stoke Newington Town Hall.
or the offices of the London Pharmaceutical Committee.

AT THE FOLLOWING TIMES:
Friday, June 3, 9 a.m. to 5 p.m.
Monday, June 6, 9 a.m. to 5 p.m.

MIDDLESEX

Kensington Town Hall.
St. Pancras Baths.
Stoke Newington Town Hall.

AT THE FOLLOWING TIMES:
Friday, June 3, 9 a.m. to 5 p.m.
Monday, June 6, 9 a.m. to 5 p.m.
or at

E. Moss, Ltd., Fern Grove, Feltham.
A. R. Cross, Ltd., 476 Hertford Road, Enfield, or the offices of the Middlesex Executive Council, Gloucester House, Gloucester Gate, London, N.W.1

AT THE FOLLOWING TIMES:
Friday, June 3, 9 a.m. to 5 p.m.
Saturday, June 4, 9 a.m. to 12 noon.

CROYDON

All chemists under contract with the Croydon Executive Council are being

asked to deliver their prescription bundles by Saturday, June 4, to the Executive Council offices, 19 South End, Croydon. The Council is arranging to forward them all to the pricing office.

SURREY

Prescription bundles may be sent or handed in at:—

Surrey Executive Council Offices,
187 Ewell Road, Surbiton
or the offices of the secretary of the Surrey Pharmaceutical Committee,
23 Worple Road, Wimbledon, S.W.19.

Arrangements are also being made for the establishment of collecting depots in each of the larger centres in the county. Anyone who has difficulty or requires information should contact the secretary of Surrey Pharmaceutical Committee (Mr. F. C. Wilson) (telephone: Wimbledon 0555).

PLYMOUTH

A system of collection of prescriptions for transport by road is being arranged in co-operation with the Devon and Exeter Pharmaceutical Committee. Arrangements are in the hands of Mr. H. Jarvis Graves, M.P.S., Exmouth.

Suppliers' Arrangements

THE BRITISH DRUG HOUSES, LTD., are asking customers to post orders at least twenty-four hours earlier than usual, since most delay is due to late postal deliveries. Vans are delivering according to normal schedule. Only a small percentage of the company's deliveries is normally made by rail.

INDUSTRIALIST'S ESTATE BENEFITS KOREAN EDUCATION: At a recent luncheon at the White House, Washington, U.S.A., President Eisenhower presented Dr. Howard Rusk (chairman of the American-Korean Foundation) with a \$100,000 cheque from the estate of the late Gustavus Pfeiffer (former chairman of the Warner - Hudnut group of companies). The money is being used by Chungang University in South Korea to further pharmaceutical education. Mr. Pfeiffer, who died in 1953, was particularly interested in furthering pharmaceutical education. Also at the presenta-



tion was Mr. Elmer Bobst (president of the group).

BUTLER & CRISPE, LTD., state that motor and road transport deliveries are proceeding normally. Goods are not being accepted for transport by rail. Main delay is caused by incoming orders being delayed in the post. Telephone orders are heavy.

GLAXO LABORATORIES, LTD., state that they normally use road transport to a very large extent and they are therefore expecting to maintain supplies to retailers and wholesalers in most parts of the country. They will be able to handle retail chemists' orders for standard parcels; and stock should be available from local wholesalers to meet small orders.

MAY, ROBERTS & CO., LTD., state that the bulk of their business is covered by motor deliveries which are proceeding normally. Goods were being accepted, at the time of going to press, by British Road Services, and by the railways, who were giving some priority to medical supplies. Urgent prescription orders normally sent by post are being dispatched by passenger train.

PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD., are giving every assistance to wholesalers as regards supplies, so as to ensure supplies to chemists through those channels. The company's motor delivery vans cover almost the whole country, and urgent orders normally sent by post are being dispatched by van. Home deliveries are not affected by the rail strike, but the export market is seriously affected.

SANGERS, LTD., state that the railway authorities have informed them that medical supplies will be accepted for transport by rail but no guarantee can be given of immediate delivery. The company also point out that postal deliveries of parcels over 8-oz. weight are accepted only for delivery in the local postal district in London and other big centres. The company's vans are delivering as usual.

Bradford Wool Grease

TONNAGE UP, VALUE DOWN

THE annual report of the Bradford Corporation sewage committee states that the sales of grease and specialised products by the Bradford Sewage Department in 1954 amounted to £214,729, a reduction on the previous year of £38,167. Although the tonnage was actually greater, the price had been reduced to keep in step with competitive greases. The report states that for the first time there has been a general recognition of the potential value of wool grease as a raw material for the chemical industry, and a great deal of work is going on, particularly in Government research laboratories in Australia and South Africa, to extend existing uses and find new uses for wool grease. The report states that sales in 1954 of the sheep-marking fluid developed in the laboratory at Esholt, Bradford, were over 8,000 gall. Arrangements were being made to secure world-wide distribution, and Imperial Chemical (Pharmaceuticals), Ltd., were entering into an agreement with the Corporation to act as sole distributors for the fluid in Great Britain and Northern Ireland.

Approved Names

SUPPLEMENTARY LIST

THE British Pharmacopœia Commission has issued the following supplementary list of approved names for drugs. The last previous list was published in the C. & D., October 23, 1954, p. 409.

NAME	OTHER NAMES
Chlorhexidine	Bis-p-chlorophenyldiguanidohexane; Hibitane
*Diethylthiambutene	3-Diethylamino-1:1-di-2'-thienylbut-1-ene; Themalon
*Dimethylthiambutene	3-Dimethylamino-1:1-di-2'-thienylbut-1-ene
*Ethylmethylthiambutene	3-Ethylmethylamino-1:1-di-2'-thienylbut-1-ene
Methylphenidate	Methyl 1-phenyl-2-piperidylacetate; Ritalin is the hydrochloride
†Phenindione	2-Phenylindane-1:3-dione; phenyldindandione; Dinevan
Polymyxin	Antimicrobial substances produced by <i>Bacillus polymyxa</i> (Specific substances are designated by a terminal letter. Thus: Polymyxin E)
Streptonicozid	A compound formed by interaction of a suitable streptomycin salt and isoniazid; Streptohydrazid
Triprolidine	trans-1,2-Pyridyl-3-pyrrolidino-1-p-tolylprop-1-ene; Actidil is the hydrochloride

*Not intended for use in human medicine; diethylthiambutene is of interest in veterinary medicine.

†Replaces phenyldindandione as the Approved Name.

Communications on the approved names should be sent to the Secretary, British Pharmacopœia Commission, General Medical Council Office, 44 Hallam Street, London, W.1.

“Prescribers’ Notes”

RECOMMENDATIONS IN MAY EDITION

THE May edition of *Prescribers’ Notes*, issued by the Ministry of Health, gives a brief review of the National Formulary 1955. It also points out that the prescribing of Casilan on form EC10 is seldom considered justified and asks consultants to realise the difficulties of the general practitioner before recommending him to prescribe that preparation after a patient leaves hospital. Attention of doctors is drawn to the necessity for using a separate form EC10 for each patient and for stating the patient's age if under fourteen. The undesirability of the indiscriminate use of antibiotics, especially penicillin lozenges and chewing gum, is emphasised, and a warning is given against infective dermatitis liable to occur following the use of broad-spectrum antibiotics locally in skin infections. Attention is drawn to the statement contained in the general notice on doses on page six of the B.P., 1953, that it is the duty of the pharmacist to seek confirmation of any unusually large dose prescribed.

pointing out the confirmation would be unnecessary if doctors would always initial unusual doses.

SCOTTISH NEWS

Chemists Federation

MEETINGS IN SCOTLAND

MEETINGS of chemists at Kirkcaldy, Kelso and Dumfries were addressed by Mr. C. C. Green (assistant secretary, Chemists Federation) recently. A meeting at Stirling which should have been the first in the series of four was cancelled owing to the poor attendance, only three chemists being present, but the remaining meetings were well attended. The theme of Mr. Green's address at each meeting was that a 100 per cent. C.F. policy was a sound business proposition for every retail pharmacist and in appealing for a greater measure of support from chemists in Scotland he stressed the fact that action, not lip service, was urgently required. He detailed the work of the C.F. Standards Committee and answered questions, and discussions on C.F. matters took place.

IRISH NEWS

Associates' Section

MEETING OF COMMITTEE

AT the May meeting of the committee of the Associates' Section of the Ulster Chemists' Association, Mr. G. E. McIlhagger (chairman) presiding, the following applications for associateship were approved:—*Pharmaceutical Chemist*, Mr. J. H. S. Allen; *Assistants*, Mrs. E. Bates and Mrs. E. Milburn. The treasurer reported that he had sent out a request to associates whose subscriptions for the current year were still unpaid. A report on a recent social subcommittee meeting was given, and it was agreed to discuss further at its next meeting the possibility of holding a pageant of pharmacy.

NEW PRICE LIST

A NEW Price List has been issued by the Irish Drug Association. It lists proprietaries in alphabetical order, except that the products of two firms are listed under the name of the firms. The name of the manufacturer is given after the name of the product. The new arrangement makes for easier reference. Any chemist who has not received his copy should notify the Association at 27 Merrion Square, Dublin.

Students' Association

LECTURE ON BOTANY

A LECTURE was given at the College of Pharmacy, Dublin, under the auspices of the Irish Pharmaceutical Students' Association, on May 17, by Dr. Helen O'Reilly (University College, Dublin) on "Botany—Its Growth and Development to a Modern Science." The attendance included Mr. R. A. Timmons, M.Sc. (Dean of the College), and other members of the teaching staff. Dr. O'Reilly traced the development of botany from the early days of the Greeks to the present time.

NEWS IN BRIEF

THE Ministry of Agriculture, Fisheries and Food has issued a reminder to farmers that cattle visibly infested with maggots of the warble fly must be dressed with derris at intervals of not more than thirty-two days as long as maggots continue to appear or until June 30, whichever is the earlier.

AT Liverpool, on May 5, Edward James Brown, Ponsonby Street, Liverpool, was fined £10 and ordered to pay £15 10s. compensation for maliciously damaging a window of a chemist's shop in Kingsley Road on April 9. Robert Simpson, Upton Close, Speke, was fined £5 for stealing toilet requisites worth £5 10s. from the shop.

PILOTTING his Auster aircraft, Mr. David Carnegie, eldest son of Mr. Donald Carnegie (managing director, Carnegies of Welwyn, Ltd., Welwyn Garden City), has just returned from a fourteen-day visit to Belgium and Germany with Dr. S. Fabian (chief research chemist of the company). Most of their time in Germany was spent at the Achema exhibition of chemical engineering, Frankfurt-am-Main.

THE report of the Central Health Services Council for 1954 recommends the acceptance by the Minister of Health of the resolutions of the Economic and Social Council of the United Nations that the use of ketobemidone in medical preparations should be prohibited, and that the possibility of discontinuing the use of cannabis in medical preparations should be explored.

THE following officers have been elected by the Association of British Insecticide Manufacturers for 1955-56: *Chairman*, Mr. F. W. Sugden (Plant Protection, Ltd.); *Vice-chairman*, Dr. J. R. Booer (F. W. Berk & Co., Ltd.); *Treasurer*, Mr. H. J. Jones, O.B.E. (Hemingway & Co., Ltd.); *Auditor*, Mr. N. B. Taylor (Hickson & Welch, Ltd.). The secretary is Mr. W. A. Williams, M.B.E., B.Sc., Cecil Chambers, 86 Strand, London, W.C.2.

AT a recent meeting of the Royal Society, the following were elected foreign members of the Society:—George Washington Corner, Baltimore (for work on the endocrine control of gestation and especially on the function of the *corpus luteum* in mammals); Lise Meitner, Stockholm (for discoveries in radioactivity and nuclear physics); and Otto Renner, Munich (for researches in plant physiology and nuclear and cytoplasmic genetics).

SPORT

Golf.—MANCHESTER PHARMACEUTICAL GOLFING SOCIETY, at Whitefield golf club, on May 18. Competition for the Ucal trophy and prize: R. Demaine, Bolton (handicap secretary) was declared the winner, after tying with E. McIntosh.

Bowls.—ULSTER CHEMISTS' ASSOCIATION, sixth annual bowling tournament, organised by Mr. J. Caldwell, in aid of the Northern Ireland Chemists' Benevolent Fund, played at the Belfast bowling club, recently. Six rinks were engaged. Ulster Chemists' cup, won by S. McLoughlin; runner-up, M. C. Mooney; third prize: J. A. McRoberts and C. S. Ritchie (tie); consolation prize, H. Baird. Visitors' section, winners were, 1, E. Coates; 2, J. Boden; 3 (tie), W. Thompson and R. Reid; consolation, W. McNally.

TOPICAL REFLECTIONS

By Xrayser

Home Safety

The responsible attitude of the pharmacist to that part of home safety which falls within his province was clearly in evidence when branch representatives met in London on May 19 (p. 586). It was obvious that much thought had been given to the problem, and equally obvious that there is no simple solution. Ingenious as was the wording put forward by several speakers, no label can eliminate the dangers to children of leaving medicine within easy reach. Parental responsibility is all-important, whether the danger lies in medicine or in fire—in razor-blade or boiling water—in sewing-machine or lawn-mower. It is fatally easy to keep a bottle of tablets on the table if the dosage is related to meal-times. Yet the potentially dangerous medicine, in this elegant age, is frequently attractively coloured or flavoured. The various forms of wording, tried out by one speaker after another, all had some drawback, and no formula could be devised that would take care of all contingencies. The composite or family prescription, officially condemned, rules out the use of the form of wording which refers to one particular patient, and all suggested wordings may, to some patients, be construed as creating alarm and despondency. Roads and medicines have a good deal in common—so much depends on the education and common sense of the user. The concern of a representative body of pharmacists reflects the desire to safeguard the public and the awareness of professional responsibility.

Rota Service

Your leader on p. 593 on rota-making and rota-breaking provides a detached and fair assessment of the present situation in many parts of the country. While recognising that the health service is run primarily in the interest of the patient, one must assert that there can be no justification whatever for a return to the anarchy which prevailed in regard to closing hours until comparatively recently in our history. Where urgent medicine is required, it must be possible for the patient to obtain it with a minimum of delay. It is the duty of pharmacy, now recognised as a professional and integral part of the National Health Service, to face up to its responsibilities. But the burden of fulfilling the duties attaching to those responsibilities must be a collective one, and the arrangements must be acceptable both to the contractors and to the Executive Councils in their capacity of representatives of the public. It appears, from the statement of its secretary, that the Pharmaceutical Society may have difficulty in enforcing the wish of the Branch Representatives. It may be that the question of flagrant and deliberate rota-breaking could be dealt with by means of a clause in the contract with Executive Councils, but it would be unfortunate if pharmacy had to resort to coercion from outside. The essence of a society, as of society itself, is that its members act collectively for the good of all. There is room for individuality within the framework of good citizenship.

Ergot of Rye

The fascinating account of experiments in the controlled cultivation of ergot of rye (p. 593 et seq.) is one more example of the application of science in a specialised branch of agriculture. It is evident that much work remains to be done, but the modest statement by your contributor does not fully reveal the tremendous amount of work he and his colleagues have done. The name *ergot* is a corruption of the older French *argot*, meaning a cock's spur. According to Hanbury, Kühn (1863) stated that "it may even be directly reproduced by germination of the conidia within the ears of rye." One can understand the reluctance to embark on planned cultivation in case of contamination, for there are records of whole countries being attacked by disease, attributable to the presence of ergot in grain. Histories of medicine abound in accounts of pestilences due to contaminated bread, particularly in France. Douglas Guthrie identifies the condition described as "St. Anthony's fire" with ergotism.

REPORT ON DRUG CONTRACTS SCHEME

And discussion on hospital pharmacy

A GENERAL meeting of hospital pharmacists in the South-west Metropolitan Region (excluding the western area) was held in London on May 14. Mr. E. A. Cross (chairman of the Committee) in opening the meeting welcomed the attendance of the Committee's contracts officer and his deputies, Messrs. W. E. L. Jones (St. Helier Group Hospital Management Committee) and R. Grist (Croydon Group Hospital Management Committee). Their presence, he said, was an indication of the increased understanding that had grown up between the pharmacists and supplies officers in the Region.

Committee's Report

THE SECRETARY (Mr. W. S. Benjamin), presenting the Committee's report on the drug contracts for 1955-56, said that the number of Groups participating in the contracts would be forty-four. Besides the five teaching hospital groups there would be nineteen other general hospital groups and twenty mental hospital groups. Following advertisements for tenders fifty-two firms had submitted quotations, and thirty-six had been recommended as contractors for the 171 items or groups of items. Before making its recommendations the Committee had considered a report from its standards subcommittee which had examined samples of eighty-nine of the items. For the majority of items, prices had been obtained which showed an improvement on those being paid at present. Considerable progress had been made in the Committee's efforts to secure the marking of each ampoule with a batch number. The total savings under the new contracts would be substantially greater than those achieved by the current contracts. The administrative expenses of the scheme were low and would not amount to more than 1 per cent. of the savings. The Committee had made every effort to see that the needs of small consumers of the various items were met as well as those of the larger users, and to that end a variety of packs had been arranged wherever possible. At the same time the Committee suggested that pharmacists should co-operate to share in minimum delivery quantities and larger packs where those could not be taken by one hospital. Now that a substantial number of items would be on the regional contracts it was hoped that in future lengthy separate group contract schedules would not be needed, thus saving time, labour and expense. A regional contract for bottles would shortly be arranged by the Committee. A report on the first year's working of the scheme had been submitted to the Regional Hospital Board and a reply had been received congratulating the Committee on its efforts and the results so far achieved. The Committee had also been invited by the Board to submit evidence for transmission to the Central Health Services Council Committee on Hospital Supplies. Finally the secretary emphasised that the continued success of the scheme clearly depended on the whole-

hearted backing of the pharmacists in the Region. It was essential to honour the commitments entered into and to respect the confidential nature of the information on prices circulated by the Committee.

In the discussion which followed MR. GILES (St. Stephen's Hospital) asked if it was desirable that the spending of public money should be so confidential. THE CHAIRMAN stressed that the quotations offered by the firms to the Committee were confidential to persons in the scheme.

MR. ALLISTER (Redhill County Hospital) hoped that the smaller firms would still have a share in the contracts.

THE SECRETARY told MR. BARROW (Farnham Hospital) that the list of contract items would probably remain around the number in the 1955-56 contracts list.

The report of the Committee was unanimously adopted.

At the evening session, which was attended by visitors from other Hospital Regions, MR. F. W. ADAMS (a secretary and the registrar of the Pharmaceutical Society) introduced a discussion on the Ministry of Health circular on hospital pharmaceutical departments (see *C. & D.*, March 12, p. 271) and MISS J. ALLEN (chairman, questionnaire subcommittee and a member of the Linstead Committee) gave a brief report on an informal meeting with the Regional Hospital Board officials that she had attended with the chairman and the secretary, when they presented information collated from recently circulated questionnaires, bearing on certain matters which were dealt with in the Ministry's circular.

Discussion at Evening Session

In the discussion which followed MR. J. D. BURNS (Croydon General Hospital) disagreed with the figure of £1,500 expenditure on perfusion fluids before achieving a saving by producing them in the department. He asked for a definition of the "skilled hand." MISS ALLEN said that "skilled hands" existed particularly in large teaching hospitals. They were the factory type of hands and were usually skilled in one branch of the work, e.g., tablet manufacture or the use of ointment machinery. The figure of £1,500 for the manufacture of perfusion fluids was taken by the Linstead Committee as the basis when starting from scratch.

MISS L. F. GAVIN (Mayday Hospital) expressed the view that extra staff would be required when large volumes of perfusion fluids were produced by pharmaceutical departments.

MR. BARROW (Farnham Hospital) said that many small hospitals without a pharmacist had benefited by the services of a group pharmacist, who had advanced the cause of hospital pharmacy.

MR. J. R. GRIFFITHS (St. Mary Abbots Hospital) pointed out the difference between a group chief pharmacist who would function in a group

with hospitals already staffed with chief pharmacists and the group pharmacist in the group in which only one hospital in the group had a pharmaceutical department. He thought that the latter appointment was justified, but expressed grave doubts about the wisdom of appointing group chief pharmacists.

MR. S. POWLSON (Brompton Hospital) emphasised the fact that in teaching hospitals most chief pharmacists were acting as group chief pharmacists with chief pharmacists at the other hospitals in the group.

MISS J. ALLEN (Hammersmith Hospital) thought that the group chief pharmacist should play the part of coordinator in the group.

Most Important Document

THE SECRETARY of the Committee said that for hospital pharmacists the Ministry's circular was the most important document of its kind ever to be issued and they must use it to the fullest extent. That meant action at regional, group and hospital levels. With regard to the South-west Metropolitan Region, pharmacy was reasonably well organised, and, as had been reported, action was already being taken at regional level. What was needed now was concurrent action by all pharmacists at group and hospital levels. The Ministry's circular defined the duties and responsibilities of the pharmacist, largely those propounded by the Pharmaceutical Society. He urged the full use of the statement in the circular that all extraneous duties should be shed wherever possible. While strongly supporting consultation between the chief pharmacists of a group by means of officially recognised committees, he personally was opposed to the appointment of group chief pharmacists over the heads of individual chief pharmacists. Concerning the paragraphs on "staff," "manufacture of perfusion fluids" and "accommodation" the Committee hoped to pursue on-the-spot investigations and to make general recommendations to the Regional Board. In the matter of the circular's recommendations on the manufacture of pharmaceutical preparations and on liaison with the nursing staff, he urged pharmacists to put their own house in order, without any promptings from their management committees.

MR. GILES (St. Stephen's Hospital) said that the shedding of extraneous duties was difficult as it would mean that management committees would have to engage extra staff to take on those duties. He also thought that pharmaceutical advisory committees functioned as fact-finding bodies for medical committees.

THE SECRETARY replied that the Committee was by no means satisfied with the position regarding group pharmaceutical advisory committees. In some cases, however, there were properly functioning Committees with direct access to the Hospital Management Committee or its subcommittees.

RECENT SCIENTIFIC RESEARCH

Exhibits at Royal Society's conversazione

AT a conversazione held by the Royal Society in its rooms and those of the Geological Society at Burlington House, London, on May 19, examples were exhibited of some of the most interesting pieces of scientific research work undertaken in Britain during recent years. Among the thirty-six well-planned and clearly set out exhibits were many of medical and pharmaceutical interest.

Structure of Striated Muscle

One exhibit showed by means of diagrams and photographs, including electron micrographs, the structure of striated muscle and the mechanism of muscular contraction. The overlapping movement during contraction and relaxation of the two types of filament contained in striped muscle was demonstrated, using a transparent plastic model of a unit of the muscle magnified 200,000 times, and electron micrographs showed the effect on the muscle fibrils of the removal, successively, of the proteins myosin and actin.

Two exhibits were concerned with the analytical estimation of small volumes of fluid and were of use in the study of the physiology of very small animals; one was an apparatus for the estimation of chloride in very small volumes of biological fluid; the other for the determination of the freezing-point of small volumes of aqueous solutions.

A prototype of a simple infra-red spectrometer, designed for use as a laboratory analytical tool and specifically to cope with the analysis of heavy water, was shown. A device known as the "imp" (integrating-motor pneumotachygraph) for investigating the energy expenditure of human beings while actually engaged in various pursuits, was incorporated into a mask which could be worn for many hours under arduous conditions without discomfort. The mask was fitted with a cigarette holder and a drinking-tube. The flowmeter, which was attached to the mask, measured the volume of air expired and took a small sample for subsequent analysis. By measurement of a sample representative of the whole period of the experiment, the oxygen consumption could be calculated.

Another exhibit demonstrated the use in medical research of x-ray cinematography, made possible by recent advances in the production of x-ray and optical equipment. The mechanism of swallowing in the human subject was shown in detail in slow motion by the projection of an x-ray cine-film.

Among exhibits concerned with atomic energy was an animated diagram showing the chain-reaction in a nuclear reactor. The diagram showed a cross-section of the uranium rods lying in channels in the graphite moderator of an atomic pile. The fission produced by a neutron in a uranium rod, and the subsequent careers of the released neutrons, were illustrated. Also concerned with atomic energy was the demonstration of a means of determining the age of

archaeological specimens by the use of radioactive carbon to estimate the date at which the animal or vegetable matter died.

Recent research work in the chemotherapy of plant viruses was demonstrated, the object of the investigation being to discover some form of chemical treatment by which a true virus can be effectively controlled. The compounds being investigated for their inhibitory effect were synthetic compounds closely related in structure to the natural bases which are components of nucleic acid. Plants were exhibited which had been sprayed with 8-azaquanine, and with 5-bromouracil.

Two exhibits of use in the study of chest diseases were a respiratory anemometer designed as a portable meter weighing only 17 gm. for measuring the respiratory volume of an ambulant patient; and an apparatus for the study of sound transmission through the normal chest by injecting sound waves into the respiratory pathway, the sound being reproduced by a microphone on the patient's chest. The am-

plitude difference with the glottis opened and closed indicated the sound transmission through the chest.

Other exhibits of more general interest illustrated the distribution and spread of myxomatosis in Britain; the method of construction of orb webs by certain spiders; a method of demonstration by recording how bird-song is learnt by one bird from another; some experimental evidence to demonstrate the voice and acute hearing of whales; and the phenomenon of "melanism" by which the normal variety of "peppered moth" is gradually being replaced by the black variety in industrial areas where, owing to air-pollution, tree-trunks and similar resting places provide a sooty background against which the normal "peppered" variety is so conspicuous as to be an easier prey for birds. Also shown during the evening was a film illustrating the use of cinematography in scientific research. The film showed various physical phenomena projected in slow motion, including a cat falling on its feet when thrown into the air; human reflex reactions to such stimuli as noises and a punch in the eye; and the flow of blood through the heart of a rabbit and the arteries of a dog.

N.H.S. ACCOUNTS 1953-54

Pharmaceutical service costs

THE National Health Service summarised accounts, 1953-54, for England and Wales and for Scotland were published separately recently by the Stationery Office, price 2s. 6d. and 1s. 6d. each, respectively.

In ENGLAND AND WALES pharmacists were paid for normal services £44,211,395 (a decrease of £1,440,690). Rota payments were £293,393 (an increase of £79). Doctors received for pharmaceutical services £1,681,874 (a decrease of £8,037). Testing of drugs and appliances cost £16,491 against £16,561 in 1952-53.

In ENGLAND drugs and dressings in general hospitals administered by Management Committees cost £5,223,565 (5·5 per cent. of total maintenance expenditure). For mental hospitals that cost was £317,497 (0·9 per cent. of total maintenance expenditure). For all types of Committee-managed hospitals, drugs and dressings expenditure was £7,295,640 (3·6 per cent. of total maintenance expenditure); for all types of Board-managed hospitals, expenditure was £1,583,450 (4·2 per cent.). Those last figures show a decrease on the previous year of £372,689 (0·4 per cent.) and £95,770 (0·4 per cent.). The average cost of drugs and dressings, per week, for each patient in a general hospital administered by a Management Committee was £1 3s. The cost of medicinal and surgical appliances was 19s. 3d. The combined cost of drugs, dressings and medical and surgical appliances the previous year was £2 1s. 1d.

Wales

In WALES the drugs and dressings in general hospitals under Hospital Management Committees cost £338,561 (5·8 per cent. of total maintenance expenditure). For mental hospitals that cost was £22,670 (1 per cent.). For all

types of Committee-managed hospitals, drugs and dressings expenditure was £499,789 (4·1 per cent. of total expenditure); for all types of Board-managed hospitals that expenditure was £42,564 (4·9 per cent.). Those last figures show a decrease on the previous year of £13,337 (0·4 per cent.) and £3,185 (0·6 per cent.).

Scotland

In SCOTLAND, pharmacists were paid £5,568,555, an apparent decrease of £70,041 compared with 1952-53. The decrease is caused by arrears payments in 1952-53 of about £173,000. There was an actual increase in gross payments to chemists in 1953-54 of about £103,000. Rota payments amounted to £4,416. Doctors received £112,202 for pharmaceutical services, a decrease of £3,487. The pharmacist's salary, etc., at the Sighthill, Edinburgh, Health Centre was £646. The cost of drugs and appliances at the Centre was £1,779. Drugs and dressings in Scottish hospitals cost £1,518,127 (5·6 per cent. of total running costs). In 1952-53 the figures were £1,558,063 and 6 per cent., respectively.

N.H.S. STATISTICS

In RENFREWSHIRE during 1954-55 the total cost of the National Health Service was £911,563, compared with £871,743 in 1953-54. The total cost of the pharmaceutical services was £318,893 (£295,894).

In DEWSBURY during 1954-55, 336,576 prescriptions were dispensed at a total cost of £67,573.

In GLASGOW during 1954-55, the total cost of the National Health Service was £3,457,861, of which the pharmaceutical services accounted for £1,307,366.

LEGAL REPORT

Fined

AT Salford, Lancs, magistrates' court on May 23, Maurice Fine, Polefield Road, Prestwich, a director of M. Fine (Chemists), Ltd., Great Cheetham Street East, Broughton, was fined £50 on a charge of inciting Kenneth Newman, a servant of James Woolley, Sons & Co., Ltd., wholesale chemists, to steal certain goods belonging to his employers. Two similar summonses were dismissed. The prosecution said that Fine had been supplied with goods by Messrs. Woolley for some time, regular deliveries being made by van. On February 11, a relief driver named Newman went to the shop with some goods. After completing his delivery he was asked by Fine to come into the rear room. There, it was alleged, Fine asked him if he had any "buckshee stuff" on his wagon, and told Newman he could "earn himself a fiver a week." Newman reported that to his superior. He next called at the shop on February 18, when Fine again asked him whether he could get any "buckshee goods" from his warehouse. Newman asked him exactly what he wanted and invited him to write down a list. Fine refused to do so but dictated a list of six drugs for Newman to write down. Fine said in evidence, that he had never on any occasion referred to "buckshee goods" and had never had any idea in his mind about stolen goods. The stipendiary said that the conversation that took place on February 11 fell short of incitement, but he was satisfied that the conversation on February 18 was a deliberate incitement to steal.

COMPANY NEWS

Previous year's figures in parentheses

G. W. HALES, LTD.—Mr. J. Richardson, M.P.S., has been appointed an additional director (see *C. & D.*, May 21, p. 552).

BEECHAM GROUP, LTD.—Resolutions relating to the forthcoming offers to preference shareholders (*C. & D.*, May 7, p. 498), have been approved.

ETHICON SUTURE LABORATORIES, LTD.—Mr. L. A. Bailey, F.P.S., is managing director of the company. The announcement in these columns on May 14 should have referred to his appointment as a director of the Edinburgh Chamber of Commerce until 1958.

GREEF-CHEMICALS HOLDINGS, LTD.—The final dividend on the ordinary capital for 1954 is 13½ per cent., less tax, making a total dividend in respect of that year of 17½ per cent. Profit of the group, before taxation, was £134,916 (£86,416); taxation, £68,910 (£43,102); to general reserve, £22,000 (£12,000); total balance, which includes £19,655 brought forward from 1953, £63,661 (£50,893).

ASHE CHEMICALS, LTD.—Net group trading profit for 1954 is £84,167 before taxation of £40,647. The profit of the subsidiaries to the date of acquisition, November 8, 1954, of £38,464, has been transferred to capital reserve account in the books of the subsidiaries, leaving £5,056.

The balance of the holding company's accumulated loss as at January 3, 1954, of £105, and expenses of reduction and reconstruction of capital and subsequent increase and acquisition of shares in Ashe Laboratories amounting to £2,358, have been written off, leaving the balance of profit of the group of £2,593 to be carried forward.

HOWARDS & SONS, LTD.—The directors of Howards & Sons, Ltd., Ilford, announce the following comparative profit figures: Group profit for 1954 after deducting loss of Canadian company but before deducting United Kingdom taxation is £59,565 (£29,546); taxation, £38,037 (£22,562); group profit after all charges, £21,528 (£6,984); ordinary dividend proposed, 2½ per cent. (same). The trading profit of the United Kingdom companies has risen from £46,199 in 1953 to £95,217 in 1954. The group profits have been arrived at after deducting trading losses of the Canadian company of £26,107 (£10,577 in 1953). The loss in 1953 related to the three months following the start of production on October 1 of that year. The Canadian company has made a small profit during the first quarter of 1955.

BOOTS PURE DRUG CO., LTD.—The following appointments have been made in the associated retail companies: Dr. D. C. Garratt (chief analyst and head of the standards department) to be a director of Boots Cash Chemists (Eastern), Ltd.; Mr. F. A. Gunn, M.P.S. (territorial general manager, Birmingham area) to be a director of Boots Cash Chemists (Western), Ltd.; Mr. J. H. Hurley, M.P.S. (territorial general manager, Nottingham and the area eastwards to the coast) to be a director of Boots Cash Chemists (Eastern), Ltd.; Mr. A. J. Ironside, M.P.S. (territorial general manager, South-west Scotland) to be a director of Boots Cash Chemists (Northern), Ltd.; Mr. R. W. Palmer (expense controller) to be a director of Boots Cash Chemists (Lancashire), Ltd.; Mr. A. A. Watsham, M.P.S. (territorial general manager, central London) to be a director of Boots Cash Chemists (Southern), Ltd.

New Companies

PHARMETHICALS (LONDON), LTD. (P.C.)—Capital £5,000. To carry on the business of industrial and manufacturing chemists, etc. Solicitors: Baylis Pearce & Co., 60 Lincolns Inn Fields, London, W.C.2.

J. P. THOMAS (CHEMISTS), LTD. (P.C.)—Capital £100. To carry on the business of wholesale and retail chemists, etc. Directors: John P. Thomas, M.P.S., and Ida A. Thomas. R.O.: 48 Windmill Street, Gravesend, Kent.

T. R. BOON, LTD. (P.C.)—Capital £5,000. To carry on the business of chemists and druggists, manufacturers of and dealers in oils, essences, etc. Directors: Lizzie Boon and Florence M. Boon, M.P.S., North View, Wallsend-on-Tyne.

ANGLO-FRENCH PHARMACALS, LTD. (P.C.)—Capital £5,000. To carry on the business of manufacturers of and dealers in drugs, medicines, etc.

Directors: Rodney F. Cox and John P. Gordon. R.O.: 11 Guilford Street, London, W.C.1.

W. WRIGHT HUDSON (WIBSEY), LTD. (P.C.)—Capital £5,000. To acquire the business of a chemist carried on by Leonard M. Eastwood, M.P.S., at 31 Holroyd Hill and 3 Fair Road, Wibsey, Bradford. Directors: William W. Hudson, M.P.S., Edith M. Hudson and Joseph H. Fawell.

SPEIRS & HOLLOWAY, LTD. (P.C.)—Capital £1,000. To carry on the business of instrument makers, including scientific glassware, etc. Directors: Lawrence A. P. S. Speirs, Rachel Speirs and Charles S. Holloway. R.O.: 7 Colville Square Mews, Portobello Road, London, W.11.

GLEN CRESTON, LTD. (P.C.)—Capital £100. To carry on the business of manufacturers of and dealers in optical instruments, laboratory equipment and apparatus, etc. Directors: Constance A. Jenkins and Dorice M. Kendall. R.O.: 41 Church Road, Stanmore, Middlesex.

J.P.M. PHARMACEUTICALS, LTD. (P.C.)—Capital £100. To carry on the business of manufacturing and dispensing chemists and druggists, etc. Directors: Augustine J. Fitzgerald, Pamela J. Fitzgerald, Michael A. Fitzgerald and John G. Fitzgerald. R.O.: 19 Wimbledon Bridge, London, S.W.19.

IRONCHEM, LTD. (P.C.)—Capital £100. To carry on the business of exporters, importers and agents for chemicals and chemical compounds, etc. Directors: Frank B. Lockwood and Christine A. Lockwood. R.O.: 25 Wellington Court, Knightsbridge, London, S.W.1.

BUSINESS CHANGES

MR. CHARLES DUNCAN, M.P.S. (trading under the name of Charles Kerr), 56 Nethergate, Dundee, has retired from business.

ZING PEN CO., LTD., have removed their administrative and accounting departments to 178 Great Portland Street, London, W.1.

MESSRS. A. B. MAY, M.P.S., and E. R. T. THOMSON, M.P.S., have opened a pharmacy at 51 Dartmouth Avenue, Sheerwater, Woking, Surrey.

LIFEGUARD PRODUCTS, LTD., has been acquired by Nicholas Products Laboratories, Ltd., 71 Buckingham Avenue, Slough, Bucks.

NICHOLAS PRODUCTS LABORATORIES, LTD. (a member of the Aspro group of companies), Slough, Bucks, have acquired the goodwill of Lifeguard Products, Ltd., and are to market Lifeguard products in the future.

MR. D. B. CHAPMAN, M.P.S., has acquired the pharmacy of Mr. J. G. Walker, M.P.S., 45 East High Street, Forfar, Angus. Mr. Chapman has another pharmacy at 4 East High Street, Forfar. Mr. Walker is going into business in Glasgow.

Appointment

SAVORY & MOORE, LTD., have appointed E. Tracey Ware & Son, 21 Lower King's Avenue, Exeter, their agents for Devon and Cornwall.

GENERAL ELECTION

Successful candidates

CANDIDATES successful in the recent General Election (see *C. & D.*, May 21, p. 560) include Dr. R. F. B. Bennett, Gosport and Fareham; Mr. Richard Fort, Clitheroe; Sir Ian Fraser, Morecambe and Lonsdale; Dr. Somerville Hastings, Barking; Dr. Charles Hill, Luton; Mr. Geoffrey A. N. Hirst, Shipley; Sir Austin U. M. Hudson, North Lewisham; Sir Hugh Linstead, F.P.S., Putney; Mr. A. R. W. Low, Blackpool, North; Sir Frederick Messer, Tottenham; Colonel M. Stoddart-Scott, Ripon; Dr. B. Stross, Stoke-on-Trent Central; Dr. Edith Summerskill, Warrington; Sir Charles Taylor, Eastbourne; and Sir W. W. Wakefield, M.P.S., St. Marylebone.

LOCAL ELECTIONS

Pharmacists returned

IN the municipal elections held recently the following pharmacists were successful:—

Mr. T. B. Harvey, M.P.S. (Plymouth city council); Mr. J. Chalmers, M.P.S. (Wimborne urban district council, Dorset); Mr. R. Comyns, M.P.S. (Sandhurst parish council, Camberley, Surrey); Mr. S. G. Court, M.P.S. (Margate town council); Mr. W. E. Walton, M.P.S. (Penge urban district council).

PERSONALITIES

MR. T. B. HARVEY, M.P.S., Plymouth, who was recently elected to the Plymouth city council for the fifth time in nine years (see above), has also been re-elected vice-chairman of Plymouth Executive Council.

MR. DENIS. L. BERENS, son of Mr. Herbert A. Berens (Biddle, Sawyer & Co., Ltd.), has taken up temporary residence in Bombay, India,



with his wife and children. Mr. Berens will be in India for two years and will visit chemical consuming interests in India to consolidate relations with the Biddle, Sawyer group of companies. His feelings as the photograph was taken he describes as "A mixture of affection and fright, not recommended for those with weak hearts."

MR. D. A. NORTON, B.Sc., F.P.S., D.B.A. (senior lecturer in pharmaceutics, department of pharmacy, College of Technology, Birmingham), has been appointed head of the department

of pharmacy, College of Technology, Bristol. He is taking up his new appointment in September.

MR. FRANK H. SWIRE, M.P.S., Halifax, has been elected an alderman of Halifax town council, of which he has been a member since 1947.

DEATHS

BARKER.—On April 23, Mr. Robert Henry Barker, M.P.S., High Meadows, Windermere, Westmorland, aged ninety.

BENGUE.—At the Pasteur Hospital, Nice, on May 26, Mr. Frédéric Bengué, 1 Wentworth Road, Golders Green, London, N.W.11. Mr. Bengué was chairman and sole governing director of Bengué & Co., Ltd., Wembley, Middlesex.

BROTHWOOD.—Recently, Miss Lilian Elizabeth Brothwood, M.P.S., 3 Westfield Avenue, Brampton, Chesterfield, Derbyshire, aged forty-six. Miss Brothwood owned a pharmacy in Chatsworth Road, Chesterfield.

BROWN.—On April 19, Mr. Arthur Miller Brown, 13 Upper Walthamstow Road, Walthamstow, London, E.17, aged eighty-eight. Mr. Brown qualified as a chemist and druggist in 1890.

MR. JAMES P. BUCHAN, M.P.S., has acquired the pharmacy of Mr. A. W. Ritchie, M.P.S., 198 High Street, Montrose; Angus.

CAMPKIN.—On May 25, Mr. Francis Sidney Campkin, F.P.S., 11 Rose Crescent, Cambridge, aged eighty. He was born above the pharmacy in which he worked until within a few days of his death.

FORREST.—At Yett Holm, Braehead, Lanarks, on May 24, Major Thomas Brown Forrest, D.S.O., aged eighty-three. Major Forrest qualified as a chemist and druggist in 1895. He was, until his retirement in 1952, a director of Hinksman & Forrest, Ltd., manufacturing chemists, Carlisle, Lanarks. He served his apprenticeship with the late Mr. John Hinksman, and in 1909 was taken into partnership.

JAMES.—At his home, 29 The Promenade, Cheltenham, Glos, on May 21, Mr. Clarence Hiley James, M.P.S., aged eighty-two. Mr. James was the first president of the Cheltenham Branch of the Pharmaceutical Society. He was also a former treasurer of the Branch and took a large part in organising the meeting of the British Pharmaceutical Conference in Cheltenham in 1928. He took a particularly keen interest in the Society's Benevolent Fund, of which he was local treasurer for many years and it was in a large measure due to his enthusiasm for that fund that Cheltenham has for so many years headed the list of subscribers to the fund. He was formerly managing director of C. & P. James, Ltd., chemists, Cheltenham. After apprenticeship in London, he qualified from the London College of Pharmacy in 1895. He then returned to Cheltenham to join his father (the late Mr. Joseph James, one of the earliest homoeopathic chemists in Britain), in his chemist's business. He managed a

branch of the business on his own, selling it, on the death of his father, to the late Mr. Harold Miller (founder of U.C.A.L.) and returning to his father's shop. He was joined there in 1911 by his cousin, the late Mr. Percy James. On the latter's death in 1940, Mr. Clarence James carried on as head of the business of C. & P. James, Ltd., until 1947 when he retired. From 1914 to 1940 his company were dispensers to the Cheltenham General and Eye Hospitals. For many years he served on the N.H.I. Pharmaceutical Committee. He was a member of the Royal Union Lodge of Freemasons, of Cheltenham Rotary Club and of the St. John Ambulance Brigade. Married twice, he is survived by four sons and a daughter of his first marriage and his widow and a daughter of the second.

JENKINS.—On May 20, suddenly, Mr. Thomas Jenkins, M.P.S., 41 High Street, Builth Wells, Brecons. Mr. Jenkins qualified in 1906. He was a Freeman of London, a Freemason and an ex-captain of the local golf club.

LOMAX.—On May 14, Mr. Leonard Lomax, M.P.S., 41 Church Terrace, Berry Brow, Huddersfield, Yorks, aged seventy-three.

WALTHAM.—On May 7, Mr. Joshua Cyril Waltham, M.P.S., 240 High Street, Potters Bar, Middlesex. Mr. Waltham qualified in 1913.

INQUEST

Teething Powders Not the Cause.—Teething powders prescribed for a Walsall child were exonerated at a Bilston inquest at Moxley Hospital on April 25, as a cause of his death. A verdict of "natural causes" was returned on David Broadhurst, sixteen-month-old son of a Walsall metal polisher. The child was admitted to the hospital on March 23 and died the next day. An autopsy was performed by a Home Office pathologist, and certain organs were analysed. The inquest had been adjourned from March 28, and when it was resumed on April 25, the coroner said that the child had been taken to hospital after contracting measles. About three months previously he had had teething troubles, and teething powders had been prescribed by a doctor. Some weeks afterwards the child apparently became ill with pink disease. The disease had been attributed to chronic mercurial poisoning, and there was no doubt that certain teething powders used to include mercury. Mercury was capable of causing signs and symptoms indistinguishable from those of pink disease, but that and chronic mercurial poisoning were two distinct conditions. The child had died from a virus infection superimposed upon pink disease. That had nothing to do with teething powders, and there was no mercury in the child at all. He could not say whether the virus was of measles or influenza, but he was inclined to think it was influenzal. The coroner said it was quite proper to have a full investigation, because the child had contracted pink disease, sometimes attributable to chronic mercurial poisoning.

INSTRUMENTS AND APPARATUS

Drip Regulator.—A drip regulator, the Condesco, made by the Boro Laboratories & Appliance Co., Ltd., 1 Station Buildings, Catford, London, S.E.6, consists of a 40-fl.-oz. receptacle in a plastic material resistant to most dilute acids at room temperature and connected to a flow control valve with adjustable calibrating marker. It gives a stable and reliable drip-rate from two to 180 a minute, is easily cleaned and resists clogging.

Agreement with Dutch Manufacturers.—Hilger & Watts, Ltd., 98 St. Pancras Way, Camden Road, London, N.W.1, have entered into an agreement with N.V. Nederlandsche Rontgen-Apparatenfabriek (Enraf) Van Leeuwenhoeksingel 69, Delft, Holland (makers of x-ray source units with sealed-off tubes), and its sister company, Nonius (makers of Weissenberg goniometers and diffraction cameras). The purpose of the agreement is to promote the development of new instruments and enable a wider range of equipment to be handled.

Instrument Industries Exhibition.—The third British Instrument Industries' Exhibition is being held at Earls Court, London, June 28 to July 9. The largest of its kind, it will include the latest products of manufacturers of scientific instruments, industrial meters, automatic controls and scientific glassware. The exhibition is organised by F. W. Bridges & Sons, Ltd., and supported by, among other organisations, the British Industrial Measuring and Control Apparatus Manufacturers, British Lampblown scientific glassware. The exhibition is and Scientific Instrument Manufacturers' Associations. Concurrently with this Exhibition there is the 10th International Printing Machinery and Allied Trades' Exhibition at Olympia (only a few hundred yards away), and in view of the rapidly growing importance of instrumentation to the printing industry, visitors to this will have the advantage of studying both modern printing machinery and the appropriate field of instrumentation, including temperature control.

Chemical Process Warning Signal.—A two- or three-light unit that provides a visual warning, and will operate an audible alarm to warn of an abnormal processing condition, is issued as the Litealarm by General Electric Co., Ltd., Magnet House, Kingsway, London, W.C.2. The Litealarm may be used as a straightforward alarm or for combined alarm, indication and control. Its panel mounting suits any thickness of panel up to $\frac{7}{8}$ in. All mechanisms and lamps are mounted on a removable panel, which can be rapidly replaced by a spare unit in the event of failure of any component. Full testing facilities allow all components to be checked at any time during normal operation. In the two-light unit the green light is on when conditions are normal. As soon as conditions become abnormal the green light is extinguished and the red light starts flashing. Simultaneously, a relay closes the hooter circuit to provide an audible alarm. The control-room

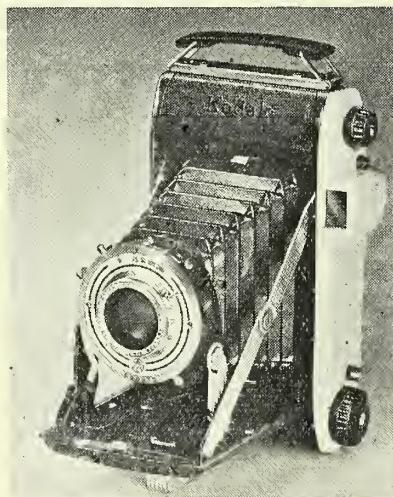
operator immediately cancels the audible alarm by operating a switch. When conditions return to normal, the green light comes on again. The three-light unit is used where two abnormal conditions can arise (such as high and low levels in a tank).

Photoelectric Fluorimeter.—A high-sensitivity photoelectric fluorimeter suitable for the accurate measurements necessary in the assay of antimalarial drugs and in vitamin B₁ determinations has been produced by Hilger & Watts, Ltd., 98 St. Pancras Way, London, N.W.1. The light source is a mercury vapour lamp used in conjunction with suitable filters and situated between a control photocell and the optical system producing fluorescence in the solution. The light passes vertically into the solution through the bottom of a narrow cell and can be regulated in intensity by

a shutter device operated by a large drum calibrated both in terms of percentage transmission and in optical densities for absorption measurement. The length of the scale is about 16 in. Colour filters may be interposed between source and solution, or between solution and photomultiplier cell. Initial calibration has to be made with a small number of solutions of known content, and a readily prepared reference solution of standard fluorescence must be available. One cell holds the standard of fluorescence and the other the substance to be measured. The less fluorescent solution is put in place and the null setting obtained with the measuring drum set at 100. The more fluorescent solution is substituted and the measuring drum rotated to reduce the intensity of irradiation and restore the null point, the final drum reading indicating the relationship between the intensities of fluorescence. The process of measurement does not involve any delicacy of observation.

PHOTOGRAPHIC NOTES

Flash-synchronised Folding Camera.—The new Kodak Sterling II camera illustrated has been designed for photographers who want a moderately-priced, $2\frac{1}{4} \times 3\frac{1}{4}$ in., flash-synchronised



Kodak Sterling II.

folding camera with a fast lens and speeded shutter. In appearance it resembles the Kodak Junior II. The body is covered in morocco-grained leather-cloth, with chromium-plated or black-enamelled metal parts. There is a smart grey plastic housing on the side of the camera for the viewfinder, opening button, winding knob, spool release knob and shutter release button. When the opening button is pressed, the self-erecting front glides smoothly into position. The camera takes eight pictures $2\frac{1}{4} \times 3\frac{1}{4}$ in. on Kodak film 620. The lens is a 105-mm. Kodak Anaston f/4.5 focusing down to 3½ ft. The four-speed, Pronto shutter gives speeds of 1/25, 1/50, 1/100, and 1/200 second and brief time. It has a built-in delayed-action mechanism for self-photography. The exposure button is located on the side of the camera. Provision is made

on the apparatus for a cable release.

Reversal Transparency Film.—Developed specially for use in Britain, Raycolor reversal transparency colour film is available in home processing sets from the distributors, Jonathan Fallowfield, Ltd., 87 Newman Street, London, W.1. The film has a high speed (25° Sch., 16 Weston), allowing exposures of the order of 1/100 second at f/8 in summer and 1/25 second at f/8 in winter.

Bulk Supplies Available Soon.—The General Electric Co., Ltd., Magnet House, Kingsway, London, W.C.2, announce that supplies will be available shortly in bulk of their G.E.C. No. 1 Photoflash bulb (C. & D., December 25, 1954, p. 639). Further trials with the bulb have indicated that a speed figure of 160 may safely be used with 32° B.S. film, or 180 with 33° B.S. film, and the cartons will in fact be marked with the latter figure.

Anti-static Cream.—The Apparatus & Instrument Co., Ltd., Vineyard Path, Mortlake High Street, London, S.W.14, have issued a white cream, Aico cream, in 1-oz. glass jar with metal screw-cap, for removing static electricity from glasses in enlarger negative carriers, and for a similar purpose on the back of negatives, or spectacles, etc. When a surface has been treated by the application of a little cream and then polished with a soft cloth, it repels dust particles. On testing, no dust could be seen on the top of a negative carrier glass interposed in the beam of the enlarger light; the glass was given a high polish. The cream should not be applied to the emulsion side of the film.

Change of Venue.—Kodak, Ltd., Wealdstone, Harrow, state that the exhibition "Forty Famous British Photographers of Today," on show in Newcastle, June 7-9, is being held at the Old Assembly Rooms, Westgate Road, Newcastle-on-Tyne, 1, and not as indicated on the invitation card. Hours of admission are 10 a.m. to 8 p.m.

TRADE NOTES

An Additional Size.—Harrogate Pharmaceuticals, Ltd., Trading Estate, Bridgend, Glam., have introduced a second, larger, size of their Harrogate health salts.

Profit Margin Increased.—Menley & James, Ltd., Coldharbour Lane, London, S.E.5, increased the retail profit on all their preparations to 33½ per cent. from June 1. New price lists have been sent to all retail pharmacists. Further copies are available on request.

Prescribable on EC10's.—Ephazone, Ltd., 59 Brook Street, London, W.1, point out that Ephazone tablets may be prescribed under the National Health Service. They are not advertised to the general public. Intended to counteract bronchial spasms, they contain ephedrine, gr. ¼, theobromine, gr. ½, phenazone, gr. 1 and calcium gluconate, gr. ¼, in each tablet.

Tenders Invited.—The Export Services Branch, Board of Trade, Lacon House, Theobalds Road, London, W.C.1, announces that tenders are invited by the Director of Medical Services, Southern Rhodesia, for diagnostic x-ray apparatus, and by the Ministerio de Salud Publica, Uruguay, for a binocular microscope. Details are given on forms TEN/13989 and TEN/13961, obtainable from the Branch.

British Scientific Instruments.—A comprehensive illustrated buyers' guide of British scientific instruments, mainly for use in research and development laboratories of chemical works and pharmaceutical factories, is included in the June issue of THE EXPORT REVIEW OF THE BRITISH DRUG AND CHEMICAL INDUSTRIES, published monthly at 28 Essex Street, Strand, London, W.C.2. Publication of the list coincides with the British Instrument Industries exhibition, Earls Court, London, June 28 to July 9.

Change of Name.—British Schering, Ltd., 229 Kensington High Street, London, W.8, announce that Albucid eye cream has been adopted as the name of the product formerly known as Acetocid eye cream. The cream contains 10 per cent. sulphacetamide sodium in a bland and stable semi-fluid base which drops freely from the applicator nozzle. It has been found to provide an effective and convenient first-aid treatment for industrial eye injuries, since neither the nozzle nor the bulk of the cream need become contaminated even in repeated use. Application of the cream by untrained personnel presents no difficulties.

Competition Prizewinners.—Prizewinners in a flashlight photography competition which was organised by Johnsons of Hendon, Ltd., Hendon Way, London, N.W.4, and closed on April 30, are announced. Three first prizes of £10 each went to Mr. J. L. R. Fisher, 3 Douglas Road, Harpenden, Herts; Mrs. I. Gosney, 44 Friday Street, Warnham, Horsham, Sussex; and Mr. B. Garth, 15 Cranford Avenue, Whitefield, nr. Manchester. Five second prizes of £5 each went to Mr. J. R. Hedger, 218 Chase Road, Southgate, London, N.14; Mr. V. Blackman, 59 Hyde Vale, Lon-

don, S.E.10; Mr. J. B. Llewellyn, Cliff Cottage, Milford-on-Sea; Mr. James E. Ross, Whitegates, Herongate, Rickmansworth; and Mr. G. H. Wright, West Bank, Ackworth, Pontefract. There were also eight third prizes of £3 each; twenty fourth prizes of 21s. each and eighteen consolation prizes.

Fancy Goods Showrooms.—The Halex range of brushes, toilet ware and fancy goods is being shown by the manufacturers, the Halex division of the British Xylonite Co., Ltd., Highams Park, London, E.4, at the following centres on the dates stated:

GLASGOW: St. Enoch Hotel: June 6-17.

EDINBURGH: George Hotel: June 27-30.

BELFAST: Kensington Hotel, College Square East: June 6-10.

LIVERPOOL: Stork Hotel: June 20-23.

HULL: Royal Station Hotel: June 13-16.

LEEDS: Hotel Metropole: June 20-24.

LEICESTER: Wellington Hotel: June 20-24 or 25.

NOTTINGHAM: Black Boy Hotel: June 27 for about a week.

BIRMINGHAM: Grand Hotel: June 20-24.

BRISTOL: Grand Hotel: June 26 for about a week.

Bonus Offers

SPONCEL, LTD., 40 Chancery Lane, London W.C.2. Offer of one "big bath" sponge and special display unit free with each order of one doz. extended until June 25.

SHARP & DOHME, LTD., Hoddesdon, Herts. Melozets methylcellulose wafers. Twelve packs invoiced as eleven; thirty-six packs invoiced as thirty-two. Until July 31.

WILLIAM R. WARNER & CO., LTD., Power Road, London, W.4. Gelusil "20's." Twelve charged as eleven; thirty-six charged as thirty. Until June 30.

Holiday and Other Closings

MENLEY & JAMES, LTD., Coldharbour Lane, London, S.E.5. Offices and factory closed on Friday, June 10, for company's annual outing. Emergency supplies from John Bell & Croyden, 50 Wigmore Street, London, W.1.

NEW PRODUCTS AND PACKS

Rectal Balm.—S. Maw Son & Sons, Ltd., Aldersgate House, Barnet, Herts, announce the addition to their range of ethical products of Hematrix balm,



hitherto supplied only in small quantities. Recommended for use under the supervision of a physician, it is now prescribable on EC10 prescriptions and is claimed an effective method for treating haemorrhoids, pruritus ani, and eczematous conditions of the anal regions and the rectum. Hematrix is presented in individually cartoned tubes, each with extension introducer. Twelve cartons go to a counter display outer and the product is being advertised in professional journals.

Two New Perfume Series.—Delavelle, Ltd., 38 Orsman Road, London, N.1, have introduced two new perfume series: Admiration and Devon Violets. Each is available in handbag, standard, small gift and large sizes of perfume; in perfumed and stick Colognes, brilliantine, talcum powder, bath cubes, and toilet soap.

Electric Fumigator.—The Vulcan-O electric fumigator, which is claimed deadly to flies, moths, wasps, cockroaches, ants and other pests, can be fixed to any electric light holder. When switched on it circulates a

heated vapour lethal to insects. Particulars of trade terms are to be had from the Vulcan Fumigator Co., Ltd., 3 New London Street, London, E.C.3.

June-release Lipstick.—Max Factor Hollywood and London (Sales), Ltd., 16 Old Bond Street, London, W.1, are releasing in June a new lipstick, Crushed Rose, a "hot rose" shade in patented colour-fast formula. Its brilliance stays on the lips and it gives "the creaminess and lasting lustre that every woman looks for in a lipstick today."

Leg Hair Remover.—Biometica, Ltd., Park Road, Barnet, Herts, have introduced a new speciality, Bu-To leg hair remover, which is claimed to produce "lovely legs in five fragrant minutes." The product is packed in a wide-necked polythene bottle from which the contents may be poured into the palm of the hand. It is applied after removal of all leg make-up, left in position for five minutes, and washed off with lukewarm water.

Two-phase Anticholinergic.—Ciba Laboratories, Ltd., Horsham, Sussex, are launching a new product, Antrenyl Duplex tablets, designed to provide rapid and prolonged relief from gastrointestinal pain, particularly nocturnal pain in peptic ulcer. Each tablet has an inner core of 5 mgm. Antrenyl enclosed in a special membrane resistant to gastric juice but soluble in alkaline intestinal secretion. Outside the membrane is an acid-soluble layer containing 5 mgm. Antrenyl, and the whole tablet is sugar-coated. The total duration of effect is claimed double that of an ordinary anticholinergic tablet, the second dose of Antrenyl being absorbed when the effects of the first are waning. The product is issued in bottles of twenty-five, 100 and 500 blue-green tablets. The original plain 5-mgm. (uncoated pink) Antrenyl tablets are still available.

LOCAL DINNERS AND DANCES

PETERBOROUGH

New President Welcomed

At the annual dinner and social evening of the Peterborough Chemists' Association recently, MR. A. R. EVANS proposed a toast to the new president of the Association (Mr. G. A. Brooks) and the guests were welcomed by MR. A. C. FOWLER.

SOUTH WALES

Surgeon as Principal Guest

PRINCIPAL guest at the seventh annual dinner of the South Wales Branch of the Guild of Public Pharmacists, held in Cardiff recently, was Mr. Dillwyn Thomas (consultant thoracic surgeon to the Welsh Regional Hospital Board and the Cardiff United Hospitals) who has done pioneer work in the surgery of diseases of the chest. Mr. Gordon Lennox (chief pharmacist, Sully Hospital) presided, and among those present were the chief pharmacists of a number of Welsh hospitals.

SOUTH LINCOLNSHIRE

Council Member as Speaker

GUEST speaker at the annual dinner of the South Lincolnshire Branch of the Pharmaceutical Society, held in Spalding recently, was MR. D. W. HUDSON, M.P.S. (a member of the Society's Council). Mr. Hudson spoke on the subject of public services and certain international aspects of pharmacy. MR. E. W. Roythorne (chairman of the Holland (Lincs) Executive Council) gave information regarding the pharmaceutical services in the county.

JERSEY

President as Guest of Honour

GUEST of honour at the annual dinner and dance of the Jersey Branch of the Pharmaceutical Society, held in St. Helier recently, was Mr. E. A. Brocklehurst (president of the Society). Replying to the toast of the Society, proposed by Senator T. G. Le Marinel (president of the local public health committee), MR. BROCKLEHURST thanked the Branch for their contributions to the Society's Benevolent Fund. MR. H. H. LE QUESNE (chairman of the Branch), proposed a toast to the guests and the response was given by DR. R. N. MCKINSTRY (medical officer of health, Jersey).

CHESTER

Too Much "Niggling"

CONSTANT "niggling" against pharmacy and pharmacists could only result in a second-class service, said MR. H. STEINMAN (vice-president of the Pharmaceutical Society) at the annual dinner of the Chester Branch of the Society recently. At the moment pharmacy was the subject of a Government inquiry, said Mr. Steinman. A great number of accountants were deciding whether pharmacists were underpaid or not, and endeavouring to save a paltry sum from an almost negligible percentage of money spent on the National Health Service. The Service was instituted so that none should suffer by lack

of cash assets from receiving the medical attention that they might need. The public should remember that pharmacists were not the people who signed the prescriptions nor those who asked for them. The toast of the Society was proposed by MR. J. GERRY (chairman of the Branch). MR. JOHN VEITCH proposed the health of the City of Chester, to which THE MAYOR (MR. J. H. Reece) responded.

BRADFORD

President Receives Guests

OVER 200 guests who attended the annual dinner and dance of the Bradford Branch of the Pharmaceutical Society recently were received by MR. E. A. Brocklehurst (president of the Society) and Mrs. Brocklehurst and by MR. D. K. Waite (chairman of the Branch) and Mrs. Waite. Proposing the toast to "The Pharmaceutical Society" DR. R. H. SUNDERLAND (deputy-chairman, Bradford Executive Council, and chairman, Bradford Branch of the British Medical Association), paid tribute to the Society for the tremendous advances made since its inception, and to the various members of the profession who were contributing in many spheres to the advancement of science. MR. BROCKLEHURST, responding, spoke of the reception that had been arranged for conferring the first honorary fellowship of the Society on the Duke of Edinburgh, and the need for a home for retired pharmacists. Regarding the latter he was sure the Branch would support the appeal, and raise the amount needed by the Society. THE CHAIRMAN proposed the toast "The City and Trade of Bradford" to which the lord mayor of Bradford replied. "The Guests and the Ladies" was proposed by MR. E. PETYT (junior vice-chairman of the Branch) and responded to by MR. E. K. PALMER (chairman, Bradford Dental Committee). Other guests included MR. S. G. Hemms (clerk to the Bradford Executive Council), Alderman Dr. D.

Black (chairman, Bradford Pharmaceutical Services Committee), MR. W. PEDLEY (chairman, Bradford Optical Committee) and the chairmen of the Leeds, Huddersfield, Dewsbury and Halifax Branches of the Society.

STAFFORDSHIRE AND DUDLEY

Cut in Remuneration?

A WARNING that in the near future pharmacists might be called upon to resist a cut in their remuneration was given by DR. D. McCALL (resident secretary, Scottish Department, Pharmaceutical Society), speaking at the annual dinner of the Staffordshire and Dudley regional group of the Society in Stafford recently. DR. McCall expressed the hope that branches of the Society would solidly back the people who were negotiating their terms for them. He said that with the coming of the National Health Service the dispensing of medicines was put in the hands of pharmacists who were being remunerated for their professional services. They could only expect to receive adequate remuneration if they gave a first-class service and they could only expect to be recognised as a profession if their educational standard was maintained. He urged members always to support the Council in any efforts it made to maintain the standard of education or even to increase it. He believed that in the future they would need all the strength they had to maintain their position in the Health Service and their standard of remuneration. Pharmacists would not be satisfied with their present standard of remuneration. Apathy was the bugbear of those who had to negotiate terms. The toast to the Society and the Branch was proposed by THE MAYOR OF STAFFORD (Councillor C. Jones), and MR. G. B. SOCKET responded. A vote of thanks to DR. McCall was proposed by MR. C. JACKSON (chairman of the Walsall Branch of the Society), and MR. J. FLEMING (chairman, Dudley and Stourbridge Branch of the Society) seconded.



STAFFORDSHIRE AND DUDLEY DINNER : Guests at the annual dinner of the Staffordshire and Dudley regional group of the Pharmaceutical Society (see above) included, centre, DR. D. McCall (resident secretary of the Scottish Department of the Society); extreme left, MR. G. B. Sockett (chairman of the North Staffordshire Branch of the Society); and, extreme right, the mayor of Stafford (Councillor C. Jones).

BRANCH AND ASSOCIATION MEETINGS

DURHAM

Pharmaceutical Industry in Burma

At a recent meeting of the Durham County Branch of the Pharmaceutical Society, Dr. D. Riding (medical director of the Evans Biological Institute) gave a talk on "The Burma Pharmaceutical Industry" and showed a coloured film that he had made when visiting Burma to inspect the area where that project was being developed.

DUNDEE

Work of an Executive Council

A DETAILED account of the work of a local Executive Council was given to the annual meeting of the Dundee and Eastern Scottish Branch of the Pharmaceutical Society recently by MR. T. LOWRIE WEST (chairman, Dundee Executive Council). Mr. West described the various groups and committees represented by the professions under the National Health Service and their duties. It was reported at the meeting that Miss E. Fyfe had retired from the office of secretary, and the chairman expressed with deep appreciation the thanks of the members for her faithful and diligent work during fully ten years.

THAMES VALLEY

Retirement Home

THE proposal to establish a residential home for retired pharmacists was discussed at the annual meeting of the Thames Valley Pharmacists' Association. The principle was agreed to be deserving of high praise, but several speakers emphasised the need for complete financial security, such as could only be obtained by the raising of the necessary capital sum to provide for maintenance out of income; it was realised that a very large capital sum would be called for, but the point was made that the present generation of pharmacists should not commit future generations to the continuing maintenance of such an establishment. Other speakers doubted whether a single home would receive adequate support from members in districts far removed from that in which it was situated and felt that other establishments would sooner or later be called for. The view was also expressed that members entering such a home would expect to remain there, and the implication in the headquarters notice that ill-health would necessitate removal caused some concern; adequate nursing facilities were felt to constitute a necessity at any such home.

BRADFORD

Discussions on Home for Retired

At the annual meeting of the Bradford Branch of the Pharmaceutical Society recently, it was agreed that the principle of providing a home for retired pharmacists was good, but the way in which it was being done was open to criticism. MR. E. ROBINSON said that it was an expensive project that only touched the fringe of the problem. Instead of providing for thirty persons the need was nearer

300. MR. C. J. BUTLER pointed out that the home was to be situated in the Home Counties, and preference would be given to southern pharmacists at the expense of the northern. He did not think that many pharmacists would be willing to make their home in that situation. MR. WORBY stated that one of the provisions of acceptance was a reasonable degree of good health, but what was to happen to the pharmacist who developed a chronic condition. Would nursing facilities be provided at the home or would he be sent to other accommodation? One point raised by many members was how many retired pharmacists were in a position to pay £5 a week? If not who was going to foot the bill? MRS. STALLARD asked what would happen if the Branch did not raise the allocation? Would the committee have to make good the difference? THE CHAIRMAN pointed out that it only meant 3s. per member to establish the home and 2s. 6d. per year to maintain it. That sounded a reasonable figure if all contributed. The position was that only a small percentage of the membership contributed to those appeals. THE SECRETARY said that the Branch could raise the money if contributions did not come to the required level, but it should be within the means of all members to give their share, if the position was made clear to them. The proposition that the card be returned with the answer "yes" in each case was carried by a small majority. It was thought that having established the home, the scheme could be extended, but sufficient knowledge was not available at present for a true assessment of the project.

PORTRUSH

Eradicating Death Watch Beetle

"FROM Pharmacy to Death Watch Beetles" was the title of an address given to the Portsmouth Branch of the Pharmaceutical Society at Southsea recently by Mr. S. A. Richardson, M.P.S. MR. RICHARDSON said that in 1931 he had opened a pharmacy in Winchester, Hants, where he was presented with a prescription calling for a mixture of paradichlorbenzine, cedarwood oil, soft soap and water, in quantities of 40 gall. at a time. That mixture was being used in an endeavour to eradicate the death watch beetle from the 800-year-old oak timbers of Winchester cathedral. The mixture subsequently proved to have no ill effect on the beetle, although the fumes from it had a serious effect on the persons using it. The cathedral architect suggested to Mr. Richardson that he should study the problem of getting rid of the death watch beetle. For that purpose a portion of the infected beam was removed from the cathedral and set up, by Mr. Richardson, in the cellar of his house, where by chiselling away portions of the wood and substituting glass plates he was able to watch the development of the beetles, and so build up a complete picture of the life of the beetles in the wood. He found that the larvae existed in the wood for ten years, and con-

cluded therefore that any insecticide must be capable of killing the larvae ten years after application. A long and arduous search followed for the ideal solvent for an insecticide; such a solvent had to be capable of penetrating deeply into the wood and also carrying the insecticide with it. Eventually a product known as Esso distillate was found to be suitable. Simultaneous with the search for a suitable solvent, laborious experimental work went on to find a poison capable of attacking and killing the beetle, a poison or combination of poisons capable of attack through the stomach and respiratory organs of the insect. With the perfected insecticide, some 1,400 churches had been treated to rid the timbers of death watch beetles; and many cathedrals and other important and historic buildings, as well as many large private houses had been similarly treated. Mr. Richardson illustrated his talk by a cine film which included many unique shots of beetles and grubs, as well as the fungal rots which attack timber. He emphasised the necessity for keeping buildings dry in order to prevent attack by fungal rots which could only develop and spread in damp conditions.

Blessing or Curse?

A TALK on "N.H.S. Proprietaries—Blessing or Curse?" was given to the Portsmouth Branch of the National Pharmaceutical Union recently by Mr. J. Wright (assistant secretary, National Pharmaceutical Union). MR. WRIGHT said that the prescribing of proprietaries had increased within the past four years from 19 per cent. to 33 per cent. In value that 33 per cent. represented 60 per cent. of the cost. Proprietaries could be classified into those advertised direct to the public and those not advertised except in professional journals. That type was commonly referred to as "ethicals." There were two main types of ethical preparations, those that had been discovered by long and expensive research and those that were merely branded forms of "standard" drugs or combinations of them. Two of the most vexed problems in the proprietary field today were those of dead stock and those brought about by reductions in price due to ministerial pressure on the manufacturer. Many pharmacists had suggested that a register of proprietaries should be compiled, no new ones being added if a preparation having the same composition was already included. That was attractive in theory but not satisfactory in practice.

DARTFORD

Talk on *Rauwolfia*

AT the annual meeting of the Dartford Branch of the Pharmaceutical Society recently, an illustrated address on "*Rauwolfia* and some other Hypotensive Drugs" was given by Dr. J. M. Rowson (curator of the Society's museum). DR. ROWSON said that *Rauwolfia* had been the subject of clinical trials in many countries during the past four years and as a result it had been

introduced into modern therapeutics for the treatment of all types of hypertension, either alone or in combination with other drugs. In 1944 the root of *Rauwolfia serpentina* was described in the Indian Pharmaceutical Codex as a useful sedative and hypotensive drug, and monographs were included in the B.P.C. 1949 and the B.P.C. 1954. The genus *Rauwolfia* was named after Leonard Rauwolf, a German physician and botanist, who travelled largely in Asia in the sixteenth century in order to study classic drugs. The official drug consisted of the dried root of *R. serpentina*. Since 1931 about fourteen alkaloids had been isolated from *R. serpentina*, and those were classified into two groups: the ajmaline group, which were weak tertiary bases precipitated by ammonia; and the serpentine group, precipitated by caustic soda but not by ammonia. Recent pharmacological examination had shown that the sedative and hypotensive properties of *R. serpentina* were largely due to the two alkaloids, reserpine and rescinnamine, which were closely related chemically, both being derivatives of yohimbine. The action of *Rauwolfia* had been studied on the rhesus monkey, the dog, and other animals, and it had been found to produce a prolonged sedation, which was, however, slow in onset. Side effects such as nasal congestion, drowsiness and diarrhoea were caused by excessive dosage. *Rauwolfia* alone was slow in action and was useful for mild cases of hypertension. In the treatment of acute cases it was combined with other hypotensives such as veratrum, rutin and hexamethonium salts. The tranquillising effect had been found useful in neuro-psychiatric treatment.

HUDDERSFIELD

Home Scheme Impracticable

A MOTION proposed and carried at a meeting of the Huddersfield Chemists' Association and Branch of the Pharmaceutical Society, on May 5, stated that while expressing every sympathy with the object of the proposed retirement home for aged pharmacists, the members felt that the present scheme was impracticable. The motion followed a discussion during which MR. G. DINKEL (secretary) said that of ninety-nine questionnaires sent out nine had been returned against, six for, the proposal and two showed uncertainty. He had received a letter from Mr. Lomax, who was in retirement, giving his opinion that the idea of a home for "brother veterans" was a good one but that, as the chief consideration would be the future financial upkeep of it, the decision should rest with the younger members who would be responsible for it. MR. MURGATROYD said that the chief point against the home appeared to be that sickness would mean that a person could not be admitted at the time when the need was greatest. MR. FAWTHROP said that suitable accommodation could be found nearer to an applicant's home. At sixty-five it was not easy for a person to move to the other end of the country. MRS. GILL pointed out that other organisations had institutions similar to that suggested and that loneliness was possibly a

worse thing than ill health. MR. GREENWOOD said that it was impossible to say what support the members would be able to give at any future time but that the thought behind the proposal was good. He took the greatest exception to the manner in which the Council had failed to decide the matter. Two "ten minute papers" were read at the meeting by members of the Branch. MR. BLAND, speaking on Gold, dealt with the qualities which had made that metal valued through the ages and with its occurrence in nature. He said that the history of gold discovery and production was parallel with the history of the development of countries benefiting from the gold and not with that of the producing countries, until the middle of the nineteenth century when the Californian and Australian fields were opened. World production then soared from 0.5 million to 6 million fine ounces per annum. In 1882 South Africa began to take the place of main producer and had kept that position to the present day. Methods of extraction and purification were then given, and Mr. Bland explained the use of the cyanide process of purification, introduced in 1890 to extract the metal from the South African ore. He said that coinage accounted for over fifty per cent. of the total amount of gold produced but there was a wide variety of other uses. Replying to questions, Mr. Bland said that the price of gold was fixed by international agreement and thus was not subject to the variations which applied to metals such as copper or lead. The price was related closely to the cost of production and not to the demand for it. In MR. T. W. BROWN'S paper on disseminated sclerosis, the various aspects of the disease were discussed, and Mr. Brown continued by saying that, although vitamin B preparations were used and drugs such as myanesin had been introduced in the hope that they would effect a cure, the disease was progressive and any treatment could only be regarded as palliative.

HULL

Presentation to President

A SILVER salver was presented to MR. E. A. Brocklehurst (president of the Pharmaceutical Society) at the recent annual meeting of the Hull Chemists' Association and Branch of the Society, to commemorate his year of office as president and in recognition of his services to pharmacy and of the honour brought to the branch by his election to the presidency. The proposed scheme for the establishment of a residential home for retired pharmacists was discussed. Points raised against the scheme were:—the large capital cost; the location of the home in the London area, and whether people from the north would like to be uprooted; whether the scheme was a duplication of the functions of the Society's Benevolent Fund; whether the conversion of an existing building would not serve as well as having a home built; and whether assurance of the sum required from the branch could be given without its affecting members' donations to the Benevolent Fund or other charities. It was stated that Branch

members had been circularised on the matter, the response being extremely poor, only thirteen members having replied, of which eight were in favour and five against. Speaking on the scheme MR. BROCKLEHURST said that the facts were badly presented in the circular to Branches. The capital cost would certainly be in the region of £30,000. He had visited many such homes which had been established by other professions in various parts of the country, and compared costs with those, estimated for that scheme, quoting a cost of £3,000 per student head for a University hostel. It was desired that residents should have quarters and facilities with which they (the members) would feel happy, and the conversion of an existing building would not provide those. The need for such a home had been shown in letters received by him, and its location in the London area was logical, as it was the natural centre, a quarter of the population being in or around London. The Benevolent Fund was, by its incorporation in the Society's Charter, only available for cases of distress and therefore could not be applied to people with means, whose only trouble was loneliness. £15,000 of the capital cost had been promised by the National Pharmaceutical Union as a memorial to Mr. G. A. Mallinson.

A National Appeal

The appeal for the remaining £15,000 would not depend on Branch efforts but would be nationally circularised through the Society and the N.P.U. and would amount to about 3s. per member for establishment and 2s. 6d. per member for maintenance. Running costs should not amount to the figure quoted in the circular as it was assumed that the majority of the residents would be able to pay their way. Most pharmacists, retiring at the present time would be able to pay that, and if that was the case the home would be self supporting. Some places would be reserved for pharmacists of inadequate means. MRS. BROCKLEHURST said that a home for aged people had been established locally, and that had been started without a penny—the raising of the capital for the Society's scheme would present no difficulty. A further advantage to locating the home in the London area was that better facilities were available for relatives to visit residents, and also support could be obtained for an efficient geriatric unit to care for residents who were taken ill. MRS. McNICOL quoted the example of two elderly pharmacists who were guests at Birdsgrove House for a month each year and who really looked forward to their stay, and became depressed when the time for leaving approached. A residential home would enable such members who had means but suffered from loneliness and were compelled to live in hotels where, as they became older, they were less welcome, to feel independent and to maintain their ties with the profession. The meeting voted in favour of the scheme by a large majority but it was decided that the questionnaire should be returned with a covering letter giving the branch view, and expressing disapproval of the method of presentation of the scheme.

FIGURES IN THE PHARMACEUTICAL WORLD

THE truth — if it be a truth — that "you can't keep a good man down" seems to apply with special appropriateness to the chairman for 1955-56 of the National Pharmaceutical Union. So far as his association with the Executive of that body is concerned his entry was not unattended by setbacks. Once elected, he rose rapidly to highest office in the organisation.

A zest for life is at once apparent in the keenness of eye of Mr. W. Talvan Rees. Vigour and determination soon show themselves as dominant characteristics. Nobody can know what battles are ahead for chemist contractors in England and Wales during the coming months, though they are all uncomfortably aware of activities at the Ministry of Health that have all the appearance of warlike preparations portending an assault or series of assaults on chemists' remuneration under N.H.S. The qualities Mr. Rees puts at the disposal of the Central N.H.S. (Chemist Contractors) Committee at the present juncture may well prove to be the most timely and valuable that any member could give.

Mr. Rees is a Welshman by birth as well as name. He served his apprenticeship at Swansea in the pharmacy of his father, Mr. John Rees, and qualified as a chemist and druggist from the Welsh School of Pharmacy. (Dr. Harold Davis, now chief pharmacist at the Ministry of Health, was at that time its head.) He spent four years with I. Rowland James, Ltd., chemists' wholesalers, Swansea and Cardiff, and must in that time have got well around among the chemists of South Wales and become fully *au fait* with their problems and opinions.

Nevertheless it is with England that Mr. Rees has had longest—and most—to do. It is in England that his "public" career has developed. And in his platform manner some can discern more of English restraint and tact than of Welsh oratory and fervour. Probably his education at Queen's College, Taunton, had some influence in smoothing down the sharper edges of his basic Welsh characteristics.

It was in 1938, ten years after qualifying, that he settled in Gloucestershire. In that year he acquired the old-established business of Hands & Co., Cheltenham. When a business has been owned by one family for three generations it acquires traditions and goodwill in which the new man may not fully share. As a proprietor pharmacist in those conditions Mr. Rees has been most successful, and in 1952 opened a branch pharmacy, also in Cheltenham.

In 1946 a vacancy on the N.P.U. Executive occurred through the death of Mr. W. Atkinson, representative for the Southern No. 2 area. Mr. Rees stood as one of four candidates but failed to secure election. Next year he stood again and lost by one vote to his only opponent.

At his third attempt, three years later, he was successful. His return to the N.P.U. Executive was a turn of fortune quickly echoed by a second success, for the following year he was elected to the Cheltenham borough council.



30. MR. W. TALVAN REES

As a town councillor he was defeated three years later, but on the Executive he went right ahead and was returned unopposed in 1953. Both a director of the Chemists' Mutual Insurance Co., Ltd., and a member of the Executive Committee of the Chemists' Sickness and Provident Society since 1950, he was elected chairman of the Sickness Society in 1954 and a year later was voted to the chair of the Union itself. Recently, within a few days of taking office, he presided at a regional conference at Matlock Bath and gained a deserved success. In that success one element was the "apprenticeship" he had given himself by attending, as vice-chairman, similar conferences at Porthcawl, Harrogate, Southport and Llandudno.

He is a member of the council of the Chemists Federation, and served on its standards committee in 1954-55. He is currently a member of its finance

and general purposes and propaganda committees.

To the deliberations at Queen Square month by month Mr. Rees brings ten years' experience as a branch secretary of the N.P.U. and seven as a member of the Gloucester City and County Pharmaceutical Committee. He has also in his time been chairman of the Cheltenham and District Branch of the Pharmaceutical Society, and in local affairs chairman of the retail trade committee of the Cheltenham Chamber of Commerce.

At forty-eight, Mr. Rees is still a comparatively young man for his office. He brings to it enthusiasm, energy, a clear understanding of current needs of proprietor pharmacists and not least an intense loyalty to his colleagues. No special gifts of prophecy are needed to predict for him a long and fruitful career of service to Pharmacy.

WALES LANDS END

Our speedy service
for all chemists' supplies is
assured by **REGULAR ROAD DELIVERIES**
in the West of England and S. Wales areas

FERRIS AND CO LTD • BRISTOL
Manufacturing
and Wholesale Chemists
Telephone BRISTOL 21381 • Telegrams FERRIS, BRISTOL

Dispensing **CORKS?**



Immediate delivery from
RANKIN BROTHERS & SONS
(RANKIN PARTNERS, LTD.)

OWNERS OF THE FINEST
CORK FORESTS IN PORTUGAL

139 Bermondsey St., London, S.E.1
Telephone: HOP 0074

"ROADMASTER" NIGHTDRIVING GLASSES

—the new accessory that
every Motorist wants!

Manufacturers : **FISH OPTICAL CO. LTD.★**
McNeish House, 261 HARROW ROAD, LONDON, W.2
Tel.: CUNNINGHAM 8318 & 8267

★Makers of the world-famous 'SUNGARD' Sunglasses

"Sweetheart" "Drinkrite"
DRINKING STRAWS
special SMALL PACKS of 50 and 100 straws.
Order now and INSIST on these brands for QUALITY.
HYGIENIC DRINKING STRAWS CO. LTD.,
College Road, Fishponds, Bristol

BURROUGH'S ABSOLUTE ALCOHOL

JAMES BURROUGH LTD., 1 Cale Distillery, London, S.E.11

One Shilling & Sevenpence PROFIT on each sale!



NERVONE

The New Biochemic Tablet

'NERVONE', CECIL HOUSE, HOLBORN VIADUCT, LONDON

Retail Prices
5s. 8d.
22s. 7d.
Incl. P.T.

LABORATORY NATIVELLE LTD., presents:

NATISEDINE

A new GENERAL SEDATIVE with
elective cardiac action

Each tablet contains:

Phenylethylbarbiturate of Quinidine: 0.10 gm.

A new, crystalline salt of high purity, stable
and with definite physical characteristics.

Tube of 20 Retail price 10/-
Bottles of 100 (Dispensing Packs)

LABORATORY NATIVELLE LTD

74 White Lion Street, London, N.I

Other lines: NATIVELLE'S DIGITALINE—OUABAIN ARNAUD
IODHEMA—NATIROSE

IT PAYS TO DISPLAY

SECTO

BRITAIN'S GREAT INSECT KILLER
FOR BIGGEST PROFITS

INFORMATION WANTED

The Editor would appreciate information about
suppliers of the following items:

ANTHONIAN tonic tablets.

DORMACIL tablets.



The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

Published weekly at
28 Essex Street, Strand, London, W.C.2

TELEPHONE CENTRAL 6565

TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

Practical Help for the Truss Fitter

By including trusses and elastic hosiery among the items that are supplied to patients by chemists and others under contract with Executive Councils, the National Health Service caused in 1948 an awakening of interest in those appliances. The types available, what each was for, how to interpret the often sketchy details on a prescription, how to measure and how to fit—those questions became matters on which guidance was sought.

To provide it, THE CHEMIST AND DRUGGIST published a series of articles by a practising appliance maker and fitter of many years' experience. The articles proved extremely popular, and when they were later brought together and republished as a booklet there was an immediate demand, which has in fact continued high.

The time arrived when it was necessary to decide what to do about reprinting, and the new edition now ready proves that radical improvements have been made. Not merely has the text been brought right up to date in the light of directives issued since the original text was prepared. The scope has been widened to include all appliances that the contractor is authorised to supply. In its content the booklet is now a complete and practical guide to the subject. Its illustrations supplement the text, leaving the reader in no doubt of the differences between one appliance and another, and showing as well as describing the methods of fitting.

One other and immediately obvious change makes the new edition a much more convenient handbook than the first. Its page size has been halved to enable it to slip easily into the pocket, for instant reference at any time, and it has been given a more durable, though still flexible cover (which may even be freshened up occasionally by wiping it with a moist sponge).

The knowledge demanded of the surgical fitter is too great for him to have always at the forefront of his mind. "The Fitting of Trusses and Elastic Hosiery" puts it literally at his finger tips.

The National Health Service has also created a need for some criterion by which the authorities and the public can identify the supplier of appliances as a man who can do his job adequately and well. Not yet has a qualification been demanded as a prerequisite to becoming a contractor although the Ministry of Health has agreed with the Royal College of Surgeons and Institute of British Surgical Technicians that a body of properly qualified truss fitters is required. The Institute has organised courses in London and the provinces terminating in an examination and, for the successful, a certificate and enrolment on a panel. As the author

of the book is both an instructor and an examiner for the Institute, readers may be assured that it conforms with the curriculum and is suitable for use as a textbook. At 4s. 6d. per copy, "The Fitting of Surgical Trusses" is, in fact, a most economical investment and surely an indispensable "tool of the trade." Nobody engaged in the supply of appliances can afford to be without it.

What to Pay a Wife Now

THE modifications in the rates of tax and relief under the Budget make it desirable to re-examine the position of the salaries of husband and wife (see *C. & D.*, February 5, p. 143). The pre-Budget examples of maximum tax relief where a wife is employed in her husband's business need revision accordingly. The material alterations of the figures would take account of:—
 (a) Personal allowance of husband as a married man increased from £210 to £240; (b) child allowance increased from £85 to £100; (c) wife's earned-income relief (same as the single person's allowance) increased from £120 to £140; (d) tax rates now on the first £60 (instead of £100) of taxable income, 2s. 3d. in the £1 (£6 15s.), on the next £150, 4s. 9d. in the £1 (£35 12s. 6d.), on the next £150, 6s. 9d. in the £1 (£50 12s. 6d.), and on the balance, 8s. 6d. in the £1. Therefore, on the first £360 of taxable income, the tax would be £93. The earned-income relief of 2/9ths, and the wife's earned-income relief of 7/9ths, with the new limit however of £140 in the latter case, do not appear to be otherwise affected.

The problem is to give the husband, out of the business, a sufficient income so as to prevent him from falling into the category of an 8s. 6d. in the £1 taxpayer, and to do the same for the wife.

For the wife, the figure appears to be £643. She must be given, after her earned income allowance of £140, £360, since anything above that would fall into the 8s. 6d. in the £1 category. Thus:—

Wife's salary	...	...	...	...	£643
Deduct (a) earned-income relief (2/9ths of £643)	...	...	...	£143	
(b) Wife's earned-income relief (maximum) £140	...	...	£140		
			£283	£283	
				£360	

For the husband, the figure appears to be £774. Thus:—

Husband's earnings	...	...	...	£774
Deduct (a) Personal allowance	...	...	£240	
(b) Earned-income relief (2/9ths of £774)	...	...	£172	£412
			£412	£362

The *C. & D.* and the Rail Strike

SHORTCOMINGS in the appearance of this week's *C. & D.* are regretted. Because nearly half the pages had been printed when the railway strike started the only method of getting the weight of the issue down to the 8 oz. limit imposed by the Post Office was to trim the margins. The amount of reading matter is, however, the same in this as in a normal issue. We hope that readers will receive their copies in good time to make use of the emergency information.

Onward from Galen A CURRENT CAUSERIE

JOHANN Georg Gmelin, who died at Tübingen, Germany, two hundred years ago on May 20, 1755, at the early age of forty-five, was a distinguished chemist, pharmacologist, botanist and explorer. After graduating M.D. of the University of Tübingen in 1727, he went to St. Petersburg, Russia, where he was given the chair of chemistry and natural history at the Imperial Academy of Sciences in 1731. From 1733 to 1743 he took charge of an adventurous tour of exploration of Siberia, and later published his important work "Flora Sibirica" in four volumes. The last six years of his life were spent as professor of medicine, chemistry and botany in his native Tübingen. In the world of pharmacology Gmelin is chiefly known for his dissertation "De rhabarbaro" (1752), which, largely pharmacological in scope, also deals with the medicinal properties of rhubarb. *Rheum officinale* was apparently first discovered in South-eastern Tibet, but the Chinese were familiar with the medicinal virtues of rhubarb as early as 2700 B.C. About 1704 the Russian government monopolised the rhubarb trade, and applied stringent regulations to its export. The so-called Russian or Muscovite or Crown rhubarb, familiarly known in England as "Turkey rhubarb," began to appear in English commerce early in the eighteenth century. The risk and expense of the enormous land transport over nearly the entire breadth of Asia made it a very costly drug. Gmelin also wrote on the use of the Peruvian bark in intermittent fevers. One of the most famous members of the famous Gmelin family was Leopold, who discovered potassium ferrocyanide in 1822 and wrote a monumental *Handbuch der Chemie* (1817-19).



BRITISH FINE CHEMICALS AND THEIR USES

35. CALCIUM CHLORIDE

CALCIUM chloride is placed on the market in pure crystalline; pure fused granular; lump and stick; and commercial grades. It is obtained in large quantities as a by-product from the ammonia-soda process, and in various chlorine manufacturing systems, and is the raw material used for the production of metallic calcium by electro-thermal methods.

Medicinally, calcium chloride is held to increase the coagulability of the blood, and is used in gastric, intestinal and pulmonary haemorrhage. It is also used in haemophilia and aneurisms, and is given internally for chilblains and in glandular enlargements, particularly those of tubercular origin. It is employed in the cotton industry, in paper making, in the production of sizing compounds, and in the starch industry. Calcium chloride is one of the raw materials used in the cyanamide industry, in the manufacture of gunpowder, and to a lesser extent in fireworks. In paint manufacture it is used in the production of pigments, while in small quantity the pure salt is employed in a fairly large list of artificially prepared mineral waters and in brewing. The fact that it is very hygroscopic is taken advantage of in numerous processes for drying gases. Because of its cheapness, and the ease with which it removes moisture, it is employed by local authorities for dust laying, in road making, and by collieries.

The commercial salt is used in ice-making, and in other sections of the refrigeration industry.

Calcium chloride is used in concrete production, in the making of specialised cements, in the concentration of vinegar, and in the manufacture of tartaric acid. It has some uses in the production of photographic emulsions.

In the laboratory it is employed, apart from its use for drying purposes, in the detection and separation of tartaric, oxalic, citric, malic, gallic, tannic and other acids. Its earlier uses as a leaching agent for ores and residues appear to have been abandoned. The pure salt is white, the commercial raw product a greyish colour. The salt crystallises in large, clear, hexagons which are very hygroscopic.

The commercial product is sometimes very impure, and is liable to contain base metals, sulphuric acid, ammonia, baryta, and arsenic. In tests for arsenic, a 5-gm. sample should show no "mirror" on applying the familiar Marsh method. In numerous processes, such as the production of oxalic acid, calcium chloride enjoyed large uses in earlier years, but they appear to have been largely abandoned. It forms a convenient cheap source of calcium for the production of other calcium salts.

CORRESPONDENCE

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

A COUNCIL CANDIDATE'S THANKS

SIR.—Will you please convey my thanks to the members who voted for me in the recent Pharmaceutical Council election.

MARY C. ISLIP

HONESTY OF THE BRITISH PUBLIC

SIR.—During the recent Photo Fair held in the New Horticultural Hall, Westminster, we were most impressed by the honesty of the British public. In spite of the fact that many small items of value were included in our display of photographic accessories and were freely handled by the tens of thousands of visitors, our losses by pilferage were precisely nil!

LONDON, N.W.4

J. E. BALMER, Sales Director
JOHNSONS OF HENDON, LTD.

OLD MANCUNIANS PLEASE NOTE

SIR.—The end of the present academic year will see the retirement of Miss Ivy Roberts, M.Sc., F.P.S., from the pharmacy department of Manchester University, after thirty-six years engaged in the teaching of pharmaceutics. During this period she has endeared herself to many hundreds of students, who will remember her with very great affection and respect. The staff of the department will be marking the occasion by a presentation to Miss Roberts, and feel that many of her past students will wish to be associated with it. Those wishing to contribute towards the presentation are invited to send their donations before June 30, 1955. Cheques and postal orders should be crossed, made payable to G. J. Rigby, and sent to the Pharmacy Department, University, Manchester, 13.

MANCHESTER, 13

H. BRINDLE
KENNETH BULLOCK
G. J. RIGBY

APPRENTICESHIP

SIR.—May I offer a little advice to those who may be tempted to accept apprenticeship with large multiple concerns? It is simply this: Ignore the promises of promotion to high places and "get out before you are worn out." By all means take the training offered; learn to display, to sell, to keep stock, to give service, and to manage modern retail shops. Read THE CHEMIST AND DRUGGIST and join the National Pharmaceutical Union. Acquire by some means the know-how of buying in the right markets (the multiples carefully exclude that from their training course) and learn how to make up "own goods." Keep an eye open for the right opportunity and at the right moment open up as an independent private chemist (you can save enough for that in ten years at present wage rates). By that means will private pharmacy survive, and become better equipped, better trained and better able to serve the "best" people—who after all do not patronise low-price multiple tailors for their clothes. There is no reason whatever why the low-price multiple chemists should monopolise the trade in drugs and dispensing. In no other profession do we find a comparable exploitation of qualified labour. It can be stopped if only newcomers realise from the start just how far they may expect to get by service to multiples, and get out in good time. I know. I joined a large multiple in 1917 and in 1943 resigned under protest that I had got nowhere. The reply to my protest was illuminating—it was that I "simply did not fit in a large organisation, and would be much more likely to succeed in business on my own account." That, after twenty-six years' service, chasing a carrot labelled "promotion"!

TWYFORD, BERKS

C. H. PATRICK

ANTIHÆMOPHILIC GLOBULIN

BY D. MAXWELL BRYCE

ACURRENT theory ascribes senescence and the eventual termination of life in living organisms to the action of lethal genes which come into play only when the reproductive life of the individual is over. In this way they avoid eradication by the process of natural selection and are transmitted from generation to generation by the normal hereditary mechanism. Lethal genes are well known and usually result in the very early death of their host, but such is not necessarily the case, and there is one which occurs in man which, although it manifests itself early in life, yet survives. It causes the disease haemophilia.

Symptoms of this disease commence in infancy. There is bleeding from the mucous membranes especially of the nose and gums, bleeding into the skin and the joints, and prolonged bleeding from any small cut or wound which, untreated, may continue for days, even until death ensues; for the essence of the disease is that the blood has lost its power to clot. Whereas the blood of a normal person drawn by clean venepuncture will clot in contact with an untreated glass surface in a few minutes, that of a haemophiliac or bleeder will generally not clot within half an hour. But the disease varies in severity and it is not impossible for the drawn blood of a haemophiliac to clot as quickly as that of a normal person. The reason for this will be made clear.

Life of a Haemophiliac Not Easy

In general the disease tends to be most severe before puberty and in those who survive to adult life the bleeding tendency appears to diminish, but tooth extraction remains a potentially fatal operation, and bleeding into the joints causes swelling and pain, often developing into crippling osteoarthritis. It is evident therefore that the life of a haemophiliac is not easy. He has difficulty in undertaking gainful employment and spends on the average about half his life in hospital. Fortunately haemophilia is not a common disease. There are only about 1,000 patients among the whole of the population of Great Britain, but it has been estimated that they cost the National Health Service about £500,000 a year. Investigations into the nature and treatment of the disease are not therefore purely academic.

A German physician named Consbruch first described haemophilia in 1793 and he noted its two main features: it is confined to males, and it tends to run in families. Pharmacists will recall that the sex of an individual is dependent on the chromosome complement of the original cell or zygote produced by fusion of the male and female gametes called spermatozoon and ovum respectively. Briefly, mammals produce only one kind of ovum, but two kinds of spermatozoon which differ in chromosome content. Fusion of an ovum with the one kind of spermatozoon gives rise to a male, and with the other to a female. In man, whose diploid chromosome number is 48, twenty-three pairs are identical in male and female and are distinguished by the name of autosome. The remaining two are responsible for the determination of sex. In the female they are identical and are called the X-chromosomes. In the male on the other hand they are different, one being an X-chromosome as found in the female and the other being an unequal and dissimilar structure called the Y-chromosome. So that all the ova of the female contain twenty-three autosomes plus an X-chromosome, whereas spermatozoa may contain either an X- or a Y-chromosome in addition to a similar twenty-three autosomes. These two types are produced in equal numbers so ensuring that, other things being equal, the numerical equality of the sexes will be maintained. It is believed that haemophilia is caused by a single gene present in the non-pairing portion of the X-chromosome.

Described in Mendelian terms, the disease behaves as a sex-linked recessive character. Therefore a male haemophiliac has normal sons and carrier daughters, who, married to a

normal man will in turn give birth to offspring with a fifty-fifty chance of being haemophiliacs, if boys, or carriers, if girls. At present there is no known way of recognising the female carriers of this fatal gene. The most refined laboratory tests still cannot differentiate their blood from that of a normal person. However, further work may change this situation; and it is possible also that a more readily observed linked character may be discovered which would make possible haemophilia-carrier detection. When daughters of a haemophiliac can be identified as carriers with certainty, it is probable that the majority will choose to remain childless. But even this expedient will not eliminate the disease because although about three-quarters of the total number of cases of haemophilia are inherited, there remain about one-quarter which arise as fresh mutations and so must be ascribed to chance.

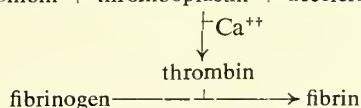
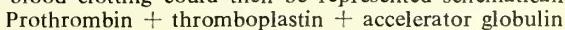
Restoring Clotting-time to Normal

It has been known for many years that the addition to haemophilic blood *in vitro* of a fractional amount of normal blood restores the clotting time to normal. On the basis of this observation treatment by an injection of normal horse serum has been recommended in a standard medical textbook as recently as 1947. This is a mere gesture—for the required factor is probably not present in horse serum and the injection cannot be repeated due to the dangers of anaphylaxis. Apart from local applications, such as viper venom or thrombin, to arrest haemorrhage, the only effective treatment until very recently was the infusion of fresh blood in large amounts. This enabled a patient to be tided through a serious haemorrhagic episode or surgical operation but gave no permanent relief from his disability because within twenty-four hours his blood has returned to its original state. Whatever factor necessary for normal blood clotting was added in the donor blood it was rapidly destroyed in the body.

Probably more effort has been expended on the study of the problem of blood coagulation than on any other comparable problem of physiology, but only in the past few years has any real light been thrown on that part of the mechanism which is defective in haemophiliacs, and the contributions of the workers at the Radcliffe Infirmary at Oxford has been paramount.

The classical theory of blood-clotting was worked out by Morawitz over sixty years ago. He considered that a substance, thromboplastin or thrombokinase, liberated by broken tissues and especially by the very fragile blood platelets or thrombocytes, in the presence of ionic calcium converts inactive prothrombin, which is a normal constituent of plasma, into the enzyme thrombin. The thrombin so formed then catalyses the conversion of soluble fibrinogen, also a normal constituent of plasma, into the insoluble protein fibrin, which forms the structural basis of blood clots. Though a blood clot has different physical properties, in particular different solubility characteristics, from a fibrinogen clot, these differences are considered to be due to secondary and subsidiary changes.

This theory went virtually unchallenged until the mid-1930's, when following on the publication by Quick of his work on "prothrombin time" determinations, came the discovery of a new factor variously called by the different workers who independently discovered it, labile factor, factor V or accelerator globulin. The revised theory of blood clotting could then be represented schematically:



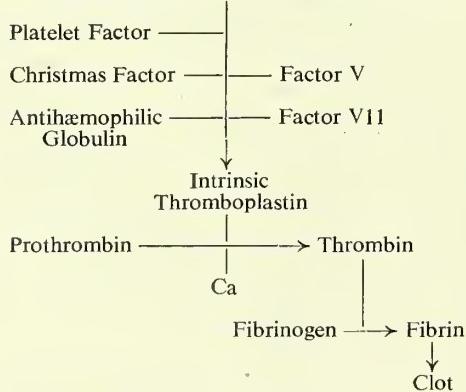
The second reaction is also accelerated by calcium ions. But even the modified theory could not account for haemophilia because haemophilic blood had been shown to contain all the above reactants in normal amounts, and to have perfectly normal platelets. And yet it would not clot.

Thromboplastin, the initiatory substance of the reaction chain was considered to be a lipid present in all tissues, but especially abundant in placenta, lung and nervous tissue. Some thought it similar to lecithin, others to cephalin, but the simple fact was that extracts of the above tissues when added to blood or plasma were very powerful promoters of clotting. It was the conviction of the Oxford workers that this circumstantial evidence was "by the way." Physiological clotting, they believed, was brought about not by an extrinsic thromboplastin, but by an equally potent intrinsic one, that is to say, by one formed within the blood itself. This was not an entirely new idea. The presence of a thromboplastinogen in the blood had been postulated several times before, but the idea had never gained credence because it had always been supposed that because the physiological normal clotting time of blood is several minutes in comparison with the fraction of a minute required by a tissue extract to bring about clotting then even supposing that an intrinsic thromboplastin did exist, its potency was patently so low that it was quite unimportant. The Oxford workers argued that because cleanly drawn blood clots without any stimulus other than surface contact then it must contain intrinsic thromboplastic activity, and by devising a technique which allowed them to follow quantitatively the generation of thrombin, they showed that this intrinsic, active, or plasma thromboplastin did exist and was as potent as the tissue extract variety.

A Deficiency in Two Factors

They were further able to show that brain thromboplastin which is the standard reagent thromboplastin, is not a complete thromboplastin at all, being deficient in at least two factors (V and VII) which occur in the blood. The combination of brain thromboplastin with these factors is very rapid, whereas the delay of several minutes which occurs before physiological clotting sets in is the result of a relatively slow reaction between a number of pre-existent factors that precedes the subsequent rapid combination with factors V and VII to form active thromboplastin. Nature provided in their clinic the material necessary to enable them to elucidate several of these factors.

SCHEMATIC REPRESENTATION OF THE MECHANISM OF BLOOD CLOTTING



All the reactants shown are well established. There may well be others.

One of the factors found was previously unknown, and since the first patient in whom they showed it to be absent was named Christmas they called it Christmas factor—probably a unique case in medical eponymy. The other factors bear the more orthodox names platelet factor, factor VII and anti-haemophilic globulin. They also showed that it is probable that factor V, previously thought to be an accelerator of prothrombin conversion is in fact as men-

tioned above concerned in the generation of active thromboplastin, the first view resulting from the acceptance of brain tissue extract as the identity of thromboplastin. So the wheel of fate goes full turn about and the classical theory in its pristine state is restored to favour except that thromboplastin is not quite the simple initiator originally conceived.

The Various Known Factors

Considering the various known factors involved in thromboplastin formation separately, we can very shortly dismiss two of them. Platelet factor is not deficient in haemophilic blood, which has been shown to have a normal platelet complement—and furthermore deficiency in this respect does not increase the latent period before clotting occurs in whole blood. Similarly factor VII, which is the main coagulation factor reduced by ethyl biscoumacetate anticoagulant therapy, is not involved. But deficiency of either anti-haemophilic globulin or of Christmas factor results in the same typical haemophilic picture of inadequate thromboplastin generation and consequent increased latent period. It is now realised that these two different conditions have always been confused in the past. Each presents the same clinical picture and they are both inherited in much the same manner. Only laboratory tests can distinguish them and reveal the essential difference which is that each of these defective bloods will rectify the abnormality of the other. Christmas factor and anti-haemophilic globulin are quite different substances. The former is precipitated from plasma with the α and β globulins whereas the latter is more closely related to fibrinogen coming down together with that substance in Cohn fraction I. Indeed, preparations of fibrinogen obtained by salt or solvent precipitation always contain anti-haemophilic globulin.

So haemophilia is really two diseases: true haemophilia or anti-haemophilic globulin deficiency, and Christmas disease. And there is yet another pseudohaemophilia in which thromboplastin formation is prevented by inhibitors circulating in the blood. These inhibitors are possibly formed by immunisation because this condition tends to develop suddenly in later life whereas the true haemophiliacs are almost always first evident in infancy.

The majority of haemophiliacs in this country suffer from anti-haemophilic globulin deficiency and in an effort to provide rational treatment of their condition much work has been carried out on the isolation of potent concentrates of this substance. Such work has been greatly handicapped in the past because the first essential for any attempt to concentrate biological activity is a reliable and quantitative assay procedure, and there was no such assay available. Hitherto haemophilic blood was required and on the one hand the undesirability of bleeding haemophiliacs for this purpose was patent and on the other hand haemophilic animals were few and far between. Apart from lack of availability of the one known suitable reagent, the only measurable effect available for use was the whole-blood clotting time—a very poor indication of the anti-haemophilic globulin content. However, the thromboplastin generation test devised at Oxford enables much more accurate determinations of anti-haemophilic activity to be carried out using readily available reagents (plasma, aluminium hydroxide treated plasma, serum and platelet suspension or chloroform extract of acetone dried brain). The result is that work on concentration of the factor has gone ahead rapidly. And not only does this test effectively measure the activity of preparations of anti-haemophilic globulin but also it measures the effectiveness of treatment in the patient. Whereas previously, prior to operation, a haemophilic patient might be transfused until his whole blood-clotting time was normal and yet suffer severe haemorrhage due to inadequate thromboplastin generation, clotting in the test being brought about by undetectably small amounts of thrombin, now it is possible to assess accurately the state of the blood.

As mentioned above, preparations rich in anti-haemophilic globulin have been made and some of these have been used

successfully in pre-operative treatment, but the dose required is large and it was for lack of appreciation of this point that most of the earlier attempts to control haemorrhage with such preparations were unsuccessful. But the way is still not clear for the institution of replacement therapy in which every patient will give himself a daily shot of anti-haemophilic globulin and lead as normal a life as the diabetic who gets his insulin from a bottle. The difficulty is that to provide the necessary amount of anti-haemophilic globulin would require processing of the greater proportion of the blood resources of the Blood Transfusion Service. The only hope lies in possible utilisation of the animal plasma which normally runs to waste down slaughterhouse drains.

The preparation of anti-haemophilic globulin from bovine plasma has already been described in the literature. In

contrast to Christmas factor, it is said to be relatively stable, but nevertheless it quite rapidly disappears from blood on storage, and the present inability to separate it completely from fibrinogen creates a further processing problem, since final Seitz filtration to effect sterilisation before filling for freeze-drying is not possible. A temporary makeshift of irradiation will probably have to be replaced by a closed system of aseptic processing from filtered plasma to finished product.

It remains to be seen whether preparations sufficiently concentrated for convenient administration to human beings and free from appreciable risk of sensitisation can be made.

The hypersensitive cavy will probably be the first animal on which these preparations are tried. If all is well the next "guinea pig" will be man himself. But in any case further work on concentration is proceeding.

THE FOUNDATION OF QUANTITATIVE ANALYSIS: A consequence of the discovery of carbon dioxide by Joseph Black, on June 5, 1755.

By T. H. BISHOP, F.R.S.A.

IN the days when "cutting for the stone" was performed without anaesthetics, sufferers naturally sought eagerly for other remedies for that distressing condition, and many eighteenth-century quacks did a flourishing trade in solvents. Among those afflicted with stone were Sir Robert Walpole and his brother Horace, the celebrated letter writer and dilettante. Both believed they obtained benefit from a medicine invented by Mrs. Joanna Stephens, and they helped to procure the payment of £5,000 to that enterprising woman as an inducement to make public the nature of her remedy. The incident was one of the most curious in the history of quack medicines, for the nostrum was no more than a "slacken'd Powder of calcin'd Egg-Shells, and a Solution of Soap. . ." The £5,000 from public funds was awarded after the concoction had been investigated by a committee composed of scientists and other eminent men, but it could scarcely be said that the public got value for its money.

Indirectly, however, the purchase of Joanna's secret was worth while, for it inspired research which led to "a discovery of more fundamental influence on the progress of Chemistry than any which had previously been described". The discoverer was Joseph Black (1728-99), who, on June 5, 1755, read a paper entitled "Experiments upon Magnesia alba, Quicklime, and some other Alkaline Substances" before the Medical Society of Edinburgh. On his arrival in Edinburgh, Black found that lithontriptic medicines were the subject of considerable controversy, and he began to experiment with various substances. He deferred taking his M.D. degree until he had satisfied himself that his findings were correct, and in 1754 he submitted a thesis entitled *De Humore Acido a Cibis orto, et Magnesia Alba*. The paper which he presented two hundred years ago was an expanded version in English. It was published in volume two of *Essays and Observations* in 1776.

Black's search for a milder alkali to replace the caustic remedies led to an investigation of magnesia. His notes show how he was led step by step to the conclusions which, together with the methods he employed, made his graduation thesis one of the most remarkable ever written. He compared the weight lost by an ounce of chalk when calcined, and when dissolved in hydrochloric acid. A later page shows that the mystery of "mildness" and "causticity" had been solved. "When I precipitate lime by a common alkali there is no effervescence. The air quits the alkali for the

lime, but it is not lime any longer, but c.c.c. It now effervesces, which good lime will not." Black also found that quicklime does not attract air in its ordinary form, but can be joined to one particular species "which is dispersed through the atmosphere, either in the state of a very subtle powder, or, more probably, in that of an elastic fluid. To this I have given the name of *fixed air* . . ."

The whole series of experiments is summarised by Ramsay (*loc. cit.*). The young medical graduate had laid the foundations of quantitative analysis, discovered "fixed air" (CO_2), proved that magnesia, hitherto regarded as a variety of lime, was a distinct substance, and opened the way to pneumatic chemistry. Black's demonstration that the balance could be used to follow each stage of complicated chemical changes revolutionised analytical methods. He corrected the then universally accepted idea that the causticity of alkalis exposed to great heat came from some acrid principle derived from fire, and showed that calcination causes not gain, but loss of weight. That which was lost, and which, by its acidity, had neutralised the natural causticity, he called "fixed air." As a model for the proper conduct of a scientific inquiry his essay is rivalled only by the famous "Optics" of Newton.

1. Sir William Ramsay: *The Life and Letters of Joseph Black, M.D.*, London: Constable and Company, Ltd., 1918.

NEW BOOKS

Chambers of Commerce Manual, 1954-55

United Trade Press, Ltd., Boswell House, Gough Square, London, E.C.4. 10 x 7½ in. Pp. 666. 50s.

THIS is the first edition of what is expected to be an annual publication. It is designed to provide ready-to-hand industrial and commercial information. The work is divided into seven parts. The first describes the organisation and functions of the chamber of commerce movement, gives a complete directory of United Kingdom chambers and shows their links with chambers of commerce overseas. The second part of the book contains commercial information on taxation, commercial law, banking, currency, labour and employment. The third and fourth parts of the work provide a guide to the fuel and power industries and to the national transport services respectively. The fifth part deals with exporting and importing and with overseas trade generally. The sixth part gives information on the British Commonwealth. The seventh part forms a detailed glossary and index, the latter running into nearly 3,000 entries.

NEW GERMAN PROPRIETARIES

Information from German pharmaceutical periodicals about recently introduced proprietaries:—

PRELUDIN.—Each tablet contains Preludin (2 - phenyl - 3 - methyl - tetrahydro - 1:4 - oxazine), 0.025 gm. Indications: Obesity. Packs: Twenty and 250 tablets. C. H. Boehringer & Sohn, Ingelheim-am-Rhein (*Pharmazeutische Zeitung*, February 17).

PROTOVIT.—Vitamins A, B₁, B₂, B₆, B₁₂, C, D and E; nicotamide, pantothenyl alcohol biotin, folic acid. Indications: Avitaminosis and hypovitaminosis. Packs: Twenty, 100 and 1,000 capsules and bottle of 10 c.c. Deutsche Hoffmann-La Roche, A.G., Grenzach/Baden (*Pharmazeutische Zeitung*, February 17).

PURINETHOL.—Each tablet contains 50 mgm. Purinethol (6-mercaptopurine). Indications: Acute leukaemia, chronic myelogenous leukaemia. Pack: Twenty-five tablets. Burroughs Wellcome & Co. (U.S.A.). Germany: E. Krübs, Frankfurt-am-Main (*Pharmazeutische Zeitung*, February 17).

REFAGAN.—Each tablet contains salicylamide, 0.2 gm.; phenacetin, 0.2 gm.; caffeine (anhyd.), 0.05 gm.; Omeril, 0.015 gm. Indications: Catarrh, influenza and common cold. Packs: Ten and twenty tablets. Farbenfabriken Bayer, A.G., Leverkusen (*Pharmazeutische Zeitung*, February 17).

ROMILAR.—Each tablet and 1 c.c. of the solution contains Dextromethorphan hydrobromide [(+)-3-methoxy-N-methylmorphinan hydrobromide], 10 mgm. Indication: Symptomatic treatment of various forms of cough. Packs: Ten, twenty, 250 and 1,000 tablets and ten, 100 and 500 c.c. Deutsche Hoffmann-La Roche, A.G., Grenzach/Baden (*Pharmazeutische Zeitung*, March 24).

VASELASTINA.—Each 2-c.c. ampoule contains ferments of fat and lipid metabolism, 30 mgm.; ferments of amino-acid catabolism, 20 mgm.; ferments of tyrosinase complex, 20 mgm. Indications: Arteriosclerosis, hypertension, vascular disturbances, cardiac diseases. Pack: Six ampoules. Polypharm, Rotterdam, In Germany: Werner Schur, Hamburg (*Pharmazeutische Zeitung*, March 24).

MISCELLANEOUS INQUIRIES

Label Varnish

Do you know of any suitable formula for a transparent paste or coating to brush over labels to keep them clean and protected from constant handling?

The following is an excellent recipe:—
White hard spirit varnish equal
Spirit parts

Before applying the varnish the labels must be twice sized with a solution of gelatin, 1 oz. in water, 20 oz.

Copper Sulphate as Worm-killer

What strength solution of copper sulphate should be used for destroying worms on a bowling green?

COPPER sulphate for use as a worm-killer on bowling greens, etc., is applied as a solution of 1 lb. in 50 gall. at the rate of $\frac{1}{2}$ gall. per square yard. The treatment may involve slight browning of the lawn, but the effect wears off in ten days or so. If desired, a small amount of ammonium sulphate may be incorporated, the effect being to apply a fertiliser at the same time as the worm-killer. The solution is most effective when applied on a warm, muggy day when the worms are near the surface.

GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable.

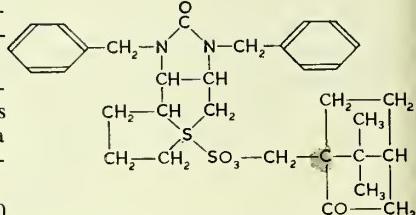
THE CHEMIST AND DRUGGIST Guide to New Medicaments (June 4, 1955).

ARFONAD

MANUFACTURER: Roche Products, Ltd., 15 Manchester Square, London, W.1.

DESCRIPTION: A hypotensive agent

(+)-3,4(1',3'-dibenzyl - 2' - keto - imidazolido) - 1,2 - trimethylene thiophanium d - camphorsulphonate.



INDICATIONS: Surgical procedures (especially neurosurgery and certain types of vascular surgery) in which a hypotensive technique is clearly indicated.

DOSAGE: A 0.1 per cent. solution (250 mgm. dissolved in 5 c.c. water for injection and diluted with 250 c.c. normal saline) is administered as an intravenous drip at a starting rate of sixty drops a minute. The rate is then adjusted to maintain the desired level of hypotension. Frequent blood-pressure determinations are essential to maintain proper control. Weaker or stronger solutions may be prepared as required. A 5 per cent. (250 mgm. in 5 c.c.) solution has been used as an intermittent intravenous injection.

HOW SUPPLIED: In packs of three and twenty-five vials of 250 mgm. dry powder, accompanied by 5-c.c. ampoule of water for injection.

FIRST ISSUED: April 27, 1955.

REFERENCES: Randall, Peterson and Lehmann, *Fed. Proc.*, 1949, **8**, 240. Scurr and Wyman, *Lancet*, 1954, **1**, 338. Anderson and McKissick, *Lancet*, 1953, **2**, 754.

NOTES: Arfonad is known to be incompatible with thiopentone, thiamylal, gallamine triethiodide, strongly alkaline solutions, iodides, bromides, etc., and a drip solution should not be used as a vehicle for administering other drugs.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (June 4, 1955).

QUIESCIN

MANUFACTURER: Organon Laboratories, Ltd., Brettenham House, Lancaster Place, London, W.C.2.

DESCRIPTION: Tablets containing 0.1 mgm., 0.25 mgm., and 1 mgm., of reserpine, an alkaloid of *Rauwolfia serpentina*.

INDICATIONS: For the treatment of anxiety states especially those associated with hypertension: also to quieten restlessness in mental diseases.

DOSAGE: In anxiety states, up to 1 mgm. daily; in mental illness and hypertension, $\frac{1}{2}$ to 3 mgm. daily.

HOW SUPPLIED: In bottles of twenty-five, 100 and 500 tablets.

FIRST ISSUED: May 2, 1955.

REFERENCES: Moyer, *Ann. New York Acad. Sci.*, 1954, **59**, 82. Kline, *Ann. New York Acad. Sci.*, 1954, **59**, 107. Greenblatt, *Ann. New York Acad. Sci.*, 1954, **59**, 133. Noce, Williams and Rapaport, *J. Amer. med. Ass.*, 1954, **156**, 821. Douthwaite, *Lancet*, 1954, **1**, 1345. Vakil, *Lancet*, 1954, **2**, 726.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (June 4, 1955).

CALCIUM DISODIUM VERSENATE, oral

MANUFACTURER: Riker Laboratories, Ltd., Morley Street, Loughborough, Leics.

DESCRIPTION: Tablets each containing 0.5 gm. calcium disodium ethylenediamine tetra-acetate.

INDICATIONS: Chronic lead poisoning.

DOSAGE: Adults, eight tablets daily in divided amounts; children, two tablets daily per 35 lb. body weight.

HOW SUPPLIED: In bottles of 100 and 500 tablets.

FIRST ISSUED: April 1955.

REFERENCES: Sidbury and others, *Proc. Soc. exp. Biol. (N.Y.)*, 1953, **82**, 226. Bradley and Powell, *J. Pediat.*, 1954, **45**, 297. Cotter, *J. Amer. med. Ass.*, 1954, **155**, 906.

NOTES: There is evidence that calcium disodium Versenate is of value in poisoning by other heavy metals, and that it will increase the excretion of radioactive elements such as plutonium and yttrium.

EVANS

MEDICAL

RANGE OF PRODUCTS FOR THE HOME

BLUE CROSS BABY POWDER	A finely milled dusting powder for nursery use.
CHILBAN	A cream for the relief of chilblains
COLLOZIN	A soothing skin lotion
EMOLAN	An emollient hand cream
EVANS THROAT PASTILLES	A traditional remedy known the world over
HANDGUARD	Barrier Creams for household use
MEDISOAPS	A range of medicated soaps
MICROBAN	An antiseptic cream for household use
OCULAX	An antiseptic eye lotion
RUBAN	An analgesic and rubefacient cream
ZANT	An all purpose disinfectant and antiseptic

EVANS MEDICAL SUPPLIES LTD.

SPEKE, LIVERPOOL 19

ALSO AT LONDON, NEWCASTLE & SWANSEA



Daphne du Maurier, author and playwright daughter of the late Sir Gerald du Maurier, began writing short stories and articles in 1928. Her first novel, 'The Loving Spirit', appeared in 1931. Since then she has become well known to cinema-goers through the filming of such famous novels as 'Jamaica Inn', 'Rebecca' and 'Frenchman's Creek'. Married to Lieutenant-General Sir Frederick Browning, she lives at Par in Cornwall. Loves walking and sailing.

"My Daily Mail" by DAPHNE DU MAURIER

AFTER a working day—and as a novelist I call a working day seven hours at my typewriter with an hour and a half off for lunch—I look forward to supper on a tray and the Daily Mail propped up against the biscuit tin.

When the children are home it is torn from me, because of Rip Kirby and Flook, and I am reminded of my father thirty years ago who used to skip the indifferent notices of his plays and turn to *Teddy Tail* as a counter-irritant.

Why do I choose the Daily Mail as a newspaper? Because I believe that those responsible for its production and for its reading matter have integrity.

The political slant may be rather Right of Centre for my personal taste—but from motives apparently patriotic and not self-seeking—and the leaders on the front page are the best in present-day journalism.

The headlines attract interest without screaming;

and the main body of news is not yet, and I hope never will be, chopped up into little snippets of three lines in the belief that a longer item wearsies the moron reader.

The Daily Mail does not go in for 'stunts'; nor does it have favourites in public life or whipping boys; it does not take up some Cause, flog it to death, and let it die.

The feature articles have a wide appeal, they are not sensational and they are never dull; the social column, unique of its kind, mercifully shuns gossip and evades banality; while the book critic, even when he damns, damns with intelligence and not with malice aforethought.

Good luck to the Daily Mail, and may it long continue to present the news in fair, straightforward fashion to readers who dislike dictatorship in their morning paper as much as they detest it in public life."

GUIDE TO NEW MEDICAMENTS concluded from p. 622.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (June 4, 1955)

PRIMOLUT-DEPOT

MANUFACTURER: Schering, A.G., Berlin. DISTRIBUTOR: British Schering, Ltd., 229 Kensington High Street, London, W.8.

DESCRIPTION: Dépôt preparation with progesterone-like action, for intramuscular injection.

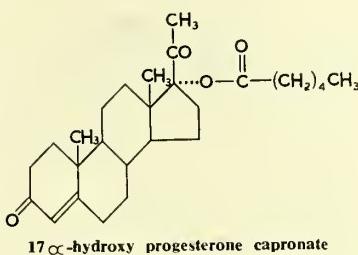
FORMULA: A solution in a mixture of ethyl lactate and castor oil, containing either 65 mgm. or 125 mgm. of 17 α -hydroxy progesterone capronate per c.c.

INDICATIONS: Habitual or threatened abortion, and functional bleeding—especially juvenile or pre-climacteric bleeding.

DOSAGE: 65–125 mgm., in accordance with indications.

HOW SUPPLIED: In packs of one or three 1-c.c. ampoules containing 65 or 125 mgm.

FIRST ISSUED: February 1955.



THE CHEMIST AND DRUGGIST Guide to New Medicaments (June 4, 1955).

PRIMO GYN-DEPOT

MANUFACTURER: Schering, A.G., Berlin. DISTRIBUTOR: British Schering, Ltd., 229 Kensington High Street, London, W.8.

DESCRIPTION: Oestrogenic dépôt preparation for intramuscular injection.

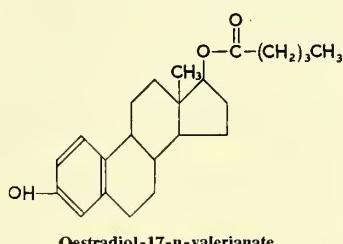
FORMULA: A solution in ethyl oleate containing 10 mgm. oestradiol-17-n-valerianate in each c.c.

INDICATIONS: Primary and secondary amenorrhoea of more than two years' duration, hypomenorrhoea, oligomenorrhoea, subliminal cycle, metrorrhagia, and deficiency signs after castration and at the menopause.

DOSAGE: 5–20 mgm. in accordance with indications.

HOW SUPPLIED: In packs of one and three 1-c.c. ampoules containing 10 mgm.

FIRST ISSUED: February 1955.



THE CHEMIST AND DRUGGIST Guide to New Medicaments (June 4, 1955).

BIDORMAL

MANUFACTURER: Allen & Hanburys, Ltd., Bethnal Green, London, E.2.

DESCRIPTION: A hypnotic tablet with two-phase action. Outer shell contains a rapid, short-acting barbiturate, while the inner core, with a carefully timed delayed action, contains an intermediate-acting barbiturate. The tablet thus produces rapidly and evenly maintained sedation throughout approximately eight hours. Each tablet contains: Pentobarbitone sodium, B.P., 90 mgm., in a rapidly soluble outer shell; and butobarbitone, B.P.C., 60 mgm., in an enteric-coated inner core.

INDICATIONS: Insomnia.

DOSAGE: 1 or more tablets as directed by the physician.

HOW SUPPLIED: In bottles of twenty-five and 500 tablets.

FIRST ISSUED: April 16, 1955.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (June 4, 1955).

NOCTYNOL

MANUFACTURER: Moore Medicinal Products, Ltd., 1 Queen's Terrace, Aberdeen.

DESCRIPTION: Non-barbiturate sedative tablets, each containing mephenesin, 200 mgm.; carbromal, 200 mgm.; bromvaletone, 70 mgm.; ascorbic acid, 30 mgm.

INDICATIONS: Insomnia, and anxiety and tensile states.

DOSAGE: Soporific, 2 or 3 tablets at bedtime; sedative, 1 tablet three times a day.

HOW SUPPLIED: In dispensing pack of fifty tablets.

FIRST ISSUED: February 1955.

WORLD TRADE

German Chemical Firm's Investments. — The Farbwerte Hoechst, A.G., Frankfurt, one of the nineteen Farben successor companies, is planning to invest about 175 million marks this year to expand its facilities, particularly those for the production of plastics, fully synthetic fibres, antibiotics and basic chemical materials like chlorine, sulphuric acid and phosphorus. Last year's investments amounted to 135,500,000 marks, against 83 million marks in 1953. The company spent about 60 million marks for research and development work last year.

New U.S. Chemical. — A United States company has developed a synthetic chemical called isosebacic acid which may sharply reduce demand for castor oil. A large industrial use of castor oil is to make sebacic acid—an important raw material for one type of nylon, for plasticisers and certain lubricants. Isosebacic acid is a mixture of three similar acids—one of them sebacic acid—which, the company indicates, can be used instead of the natural product. It is now being sold in experimental amounts for 45 cents per lb., and much lower prices are expected when full-scale commercial output is attained. Sebacic acid made from the natural oil sells for about 64 cents per lb.

ZANZIBAR CLOVES

The market review of the Zanzibar Clove Growers' Association for the quarter ended March 31 (i.e., the third quarter of the seasonal year 1954–55), states that the total quantity of the 1954–55 clove crop that had passed through the central market, and the Association's depôts in Zanzibar and Pemba up to March 31 amounted to 456,032 frasillas. Stocks at March 31 were considerably lower than at the same time last year. The first part (mwaka) of the 1955–56 crop is now showing but will not be ready for picking until August–September. Supplies for the quarter totalled 209,578 frasillas (3,275 tons) of which 167,070 frasillas (2,611 tons) came from Pemba and 42,508 frasillas (664 tons) was the produce of Zanzibar. The Association's buying and selling prices for the quarter remained unchanged. Average prices for fair quality cloves in the open market during the quarter are compared with those for the same period in 1954 in the following table:

MONTH	AVERAGE PER 100 LB.	
	1955 Shs. Cts.	1954 Shs. Cts.
January	238 88	212 67
February	230 15	211 64
March	215 89	207 34

The average price for the nine months ended March 31 was Shs. 237/15 per 100 lb. ex duty. During the quarter reviewed, exports to Indonesia were 56 per cent. of the total, while to India it was 16 per cent., and to the United Kingdom 4·45 per cent. Exports of clove stem oil totalled 57,290 lb. during the quarter. 33,760 lb. was shipped to the United Kingdom.

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JUNE 1: With the Whitsun recess and a general election taking place in the past week, trade has been very limited.

Both African and Jamaican GINGERS moved up another 5s. a cwt. as steady demand developed from overseas and origin were short of supplies. Australian HONEYS also advanced by 5s. a cwt., but Argentine was unchanged. Black-brilliant COCHINEAL is very scarce with prices nominal.

In PHARMACEUTICAL CHEMICALS, THEOBROMINE was dearer by 2s. 6d. a lb. for the alkaloid and 1s. 3d. for the salt.

A report from Australia states that a method of producing RESERPINE from an indigenous plant has been devised.

In ESSENTIAL OILS, TANGERINE is short on the spot and origin is quoting prices well above the London market. CORIANDER is also lower than origin as there are some weak holders. CARAWAY is firm and scarce at former levels while imported JUNIPER BERRY is up by 4s. a lb. LEMONGRASS was easier by threepence a lb. Ceylon CITRONELLA was cheaper by fivepence and threepence on the spot and c.i.f., respectively. Java was cheaper both in bond and c.i.f., by threepence.

Pharmaceutical Chemicals

AMIDOPYRIN.—Minimum price (5-cwt. lots) is 22s. 8d. per lb. with usual differential for smaller lots.

ATROPINE.—Rates (per oz.) for 16-oz. lots are: ALKALOID, 30s. 9d.; SULPHATE, 25s. 9d.; METHYL BROMIDE, 31s. 9d.; METHYLNITRATE, 36s. 9d. The price for 1-oz. lots is 6d. per oz. more than the 16-oz. lots.

ICHTHAMMOL.—B.P. is from 2s. to 2s. 6d. per lb. in 1-cwt. lots as to holder and container.

NICOTINIC ACID.—Prices per kilo are 78s. for 1-kilo and 70s. for 50-kilo lots.

OPIATES.—Home trade rates for 4-oz. up to 7-oz. lots including container (non-returnable) are as follows:—CODEINE.—alkaloid, hydrobromide, iodide, 58s. 6d. per oz. (2.063s. per kilo); hydrochloride, sulphate, 51s. 3d. (1.808s.); phosphate, 44s. 9d. (1.578s.). DIAMORPHINE.—Alkaloid, 60s. 3d. per oz. (2.125s. per kilo); hydrochloride, 54s. 9d. (1.931s.). ETHYL-MORPHINE.—Alkaloid, 63s. per oz. (2.222s. per kilo); hydrochloride, 53s. 9d. (1.896s.). MORPHINE.—Alkaloid, bimeconate, tartrate, 60s. 6d. per oz. (2.134s. per kilo); acetate, hydrochloride, sulphate, hydrobromide, 50s. 3d. (1.773s.).

PILOCARPINE.—In 100-oz. (or 2½-kilo) lots prices are: HYDROCHLORIDE, 42s. 6d. per oz. (1.428s. 6d. per kilo); NITRATE, 38s. per oz. (1.340s. per kilo).

STEARATES.—Prices for minimum 1-ton lots are as follows:—ALUMINIUM (all grades), 244s. 6d. per cwt.; CALCIUM (precipitated), 222s. 6d.; LEAD (30 per cent.), 229s. 6d.; LITHIUM (ordinary quality), 461s. 6d. MAGNESIUM (standard), 256s. and (superfine) 286s.; ZINC, B.P., 276s.

THEOBROMINE.—Alkaloid 34s. per lb. for 1-cwt. lots and the SODIUM salicylate, 21s. per lb.

THYMOL.—Prices (per lb.) are 15s. 9d. for 28-lb. and 15s. 3d. for 1-cwt. lots.

ZINC SULPHATE.—B.P. in 1-cwt. lots is quoted at 1s. 2d. per lb.; 28-lb., 1s. 5d.

Crude Drugs

BALSAMS.—Quotations (per lb.) are:—
Canada: spot offers are 22s. 6d.; new-crop for shipment, 19s. c.i.f. *Copaiba*, B.P., 10s. 6d. to 11s. 6d.; Para insoluble, 7s. 6d. Peru is 11s. 6d., duty paid; forward delivery, 10s. c.i.f. *Tolu* (genuine as imported), 26s. 6d. spot and 26s. c.i.f.; B.P., 17s. 6d., spot.

COCHINEAL.—Black-brilliant very scarce, prices nominal. Silver-grey are 19s. and grey-black, 19s. 6d. Peruvian silver-grey is offered at 16s. 9d. ex wharf.

GINGER.—Firmer. African is quoted on the spot at 255s. per cwt., and shipment at 250s. c.i.f. Jamaican No. 3 is 355s. on the spot and 342s. 6d. c.i.f.

GUM ACACIA.—Kordofan cleaned sorts on the spot are offered at 135s. per cwt. and June shipment at 127s. c.i.f.

HONEY.—Australian light-amber is offered on the spot at from 115s. to 125s. per cwt. and medium-amber, 105s. to 113s. June delivery of Argentine is quoted unchanged at 135s., ex store.

JALAP ROOT.—Vera Cruz, untested is offered at 3s. 9d. per lb. Brazilian, 12·4 per cent., is quoted at 1s. 10½d.

KARAYA.—No. 1 gum on the spot is quoted at 350s. per cwt., and No. 2 at 330s.

KOLA NUTS.—African halves continue short on the spot at about 6½d. per lb. Jamaican are offered from 7d. to 7½d. as to holder.

QUASSIA.—Spot quotations for chips are at about 45s.; June shipment is about 32s. 6d. per cwt.

PEPPER.—Improvement has been maintained during the past week. White Sarawak on spot is now 3s. 9d. per lb. and forward shipment is now quoted at 3s. 8d. c.i.f. Black Sarawak is 2s. 10d., spot; afloat, 2s. 8½d. to 2s. 9½d., c.i.f. Black Malabar is 370s. to 375s. per cwt., spot.

PSYLLIUM.—Indian seeds are quoted at 1s. 1d. to 1s. 2d. per lb. on the spot.

SEEDS.—(Per cwt.) ANISE.—Tunisian quoted at 277s. 6d. spot, duty paid. New crop Cyprus is not yet quoted for shipment.

CARAWAY.—Dutch again easier, sellers quoting 155s. duty paid, spot London.

CELERY.—Indian in poor demand 142s. 6d. offered on spot.

CORIANDER.—Owing to poor demand market is weaker. Spot, Morocco, 76s., duty paid (71s. 6d. in bond). Rumanian, 58s., duty paid; splits, 51s. 6d., duty paid.

CUMIN.—Market unchanged. Spot, Cyprian, 122s. 6d.; Morocco, 125s., duty paid. Shipment (new crops), Cyprian, 105s.; Morocco, 97s. 6d., both c.i.f. London.

DILL.—Indian is still offering at 65s., spot.

FENNEL.—Sellers of Indian at 90s. and Chinese, 92s. 6d., duty paid.

FENUGREEK.—Firm, all stocks of Morocco have been cleared on spot.

New crop for June-July shipment quoted at 48s., c.i.f. Lebanese, 60s., spot, duty paid.

MUSTARD.—English remains firm, 77s. 6d. to 95s., according to quality.

SENNA.—*Tinnevelly LEAVES* (per lb.), prime No. 1, 1s. 1½d.; No. 2 (dry crop), 9½d.; prime No. 3, 8d.; f.a.q., No. 3, 7½d.; PODS, f.a.q., 7½d.; hand-picked, from 1s. 6½d. to 2s. 10d. as to quality, all on the spot.

Alexandrian manufacturing pods, 2s. spot; small lots of hand-picked are from 8s.

TURMERIC.—Madras finger quoted at

185s. per cwt., spot. Afloat parcels are quoted at 165s. c.i.f. June shipment has eased to 155s., c.i.f.

Essential and Expressed Oils

CARAWAY.—English-distilled is offered at 55s. and imported oil at 32s. 6d. per lb. duty paid.

CHENOPodium.—1-cwt. lots are 42s. 6d. per lb.

CITRONELLA.—Ceylon is easier at 6s. 9d. per lb. on the spot and c.i.f. Formosan is unchanged at 12s. 6d. in bond and c.i.f. Java is easier at 12s. 6d., both in bond and c.i.f.

CLOVE.—Madagascar leaf is 10s. 9d. per lb., duty paid and 9s. 3d. c.i.f., for shipment. Redistilled stem oil from 17s. 6d.; distilled bud oil, English, from 35s. to 40s.; imported, 18s. 6d. to 19s. 6d.

CORIANDER.—Russian-seed oil is offered at 90s. per lb.

GINGER.—English-distilled oil is 160s. per lb. nominal, with cheaper grades down to 115s. Imported oils are now 165s. per lb., duty paid and 150s. c.i.f.

JUNIPER BERRY.—Imported oils are dearer from 20s. per lb., duty paid. English-distilled is now 155s.

LEMONGRASS.—Spot is easier at 11s. 6d. per lb. and shipment at 11s. 3d., c.i.f.

ORANGE.—Quotations include: Floridan, 4s. 6d.; Californian and Brazilian, 5s. 6d.; West African, 11s. 6d. to 14s. B. West Indian, 6s.; Palestinian, 7s. 6d. For shipment, Californian sweet, 6s., c.i.f., and cold-pressed, U.S.P., 9s. 3d., c.i.f. subject to licence. West African, 14s., c.i.f.

TANGERINE.—Sicilian is scarce on the spot at 45s. to 52s. per lb. Shipment is quoted at 63s., c.i.f. Californian is offered at 17s. 6d., spot.

UNITED STATES REPORT

NEW YORK, MAY 31: Higher per oz. among silver salts were chloride at 81½ cents and nitrate sticks No. 1 at \$1-01½ (each up a quarter cent); cyanide at 81½ cents and oxide at 88½ cents (each up three-eighths of a cent); and nitrate at 59½ cents (one-half cent). Higher per lb. were natural phenol, 90 per cent, at 15 cents and U.S.P. synthetic phenol at 17 cents (each up 1 cent), U.S.P. cresol and mixed meta-para cresol at 14½ cents (1½ cents), and resin grade standard cresol at 13½ cents (1½ cents). Cresylic acid coal tar 50 per cent., 204-207° C., advanced to \$1·1 per gall. (up 15 cents) and 207° C. or more to \$1 (10 cents). Major iodides were reduced 25 cents per lb., making resublimed iodine \$2·3, potassium iodide, \$1·9, potassium mixture at \$1·81 and sodium iodide \$2·55. Price advances effective tomorrow will raise ethylene glycol to 13½ cents a lb., diethylene glycol to 15½ cents, triethylene glycol to 18½ cents and ethylene oxide to 15½ cents. Spot prices for ALOES are higher with Cape at 40 cents (up 2 cents) and Curaçao at 45 cents (5 cents). Portuguese ERGOT dipped to \$2·1 per lb. (down 15 cents) and ASAFETIDA to 30 cents (2 cents). Higher per lb. among ESSENTIAL OILS were ALMOND at 60 cents (up 2 cents) and GINGER at \$15 (50 cents). Lower per lb. were EUCALYPTOL at \$1·45 (down 20 cents) and Formosan CITRONELLA at \$1·85 (15 cents).

WILLS

MR. W. F. BAILLIE, M.P.S., 38 Carlton Avenue, Romiley, Ches, and formerly Stockport Road, Ashton-under-Lyne, left £10,329 (£10,227 net).

MR. G. B. BARNARD, M.P.S., 35 Synder Road, Stoke Newton, left £60,208 (£57,123 net).

MR. J. W. COX, M.P.S., 86 High Street, Deal, Kent, left £11,306 (£8,425 net).

MR. W. E. DARNEY, M.P.S., 9 Epsom Road, Seven Kings, Ilford, Essex, and formerly Manor House Road, Jesmond, Newcastle-upon-Tyne, left £1,248 (£1,213 net).

MR. A. G. ECCLESALL, M.P.S., 154 High Street, Stourbridge, Worcs, left £1,800 (£1,403 net).

MR. E. M. ELLIOTT, M.P.S., The Croft, Gorway Road, Walsall, Staffs, left £26,881 (£26,580 net).

MR. W. L. JONES, 10 Long Lane, West Kirby, Ches, and formerly Anchorsholme Lane, Cleveleys, Lancs, who qualified as a chemist and druggist in 1891, left £716 (£681 net).

MR. A. KING, M.P.S., 50 Long Street, Wigston, Leics, left £17,587 (£16,693 net).

MR. F. LAWRENCE, M.P.S., 9 Coach Lane, Redruth, Cornwall, and formerly of Chapel Row, Bath, left £6,947 (£6,888 net).

MR. J. MARTIN, 246 Oldham Road, Ashton-under-Lyne, Lancs (formerly a representative in the Yorkshire area for Thomas Kerfoot & Co., Ltd.), left £5,432 (£5,384 net).

SIR EDWARD MELLANBY, G.B.E., K.C.B., F.R.C.P., F.R.S., 5 East Heath Road, N.W.3 (a former secretary of the Medical Research Council and a former professor of pharmacology in the University of Sheffield), left £46,123 (£44,486 net).

MRS. M. T. PARRY, M.P.S., 14 Sandy Cove, Kinmel Bay, nr. Abergale, North Wales, widow of Mr. L. Moreton Parry (a former president of the Pharmaceutical Society), left £109.

MR. C. E. UNDERHILL, M.P.S., Localto, Saltash Road, Callington, Cornwall (founder and chairman of C. E. Underhill & Sons, Ltd., Callington and Saltash), left £14,139 (£13,999 net).

MR. J. H. WADSWORTH, The Roughets, Betchingley, Surrey (a former director of Imperial Chemical Industries, Ltd.), left £42,382 (£40,042 net).

MR. C. WALKER, A.R.I.C., 24 Holland Park, W.11 (formerly manager and technical adviser, pharmaceutical department, Sandoz Products, Ltd.), left £1,198.

MR. P. H. WARREN, M.P.S., 238 London Road, St. Albans, Herts, who qualified as a chemist and druggist in 1903, left £24,135 (£15,936 net).

MR. J. WEIR, M.P.S., 41 Mitre Road, Glasgow, left £40,016.

MR. R. H. B. WHITHEAD, M.P.S., The Pharmacy, The Green, East Rudham, Norfolk, left £4,783 (£4,237 net).

MR. E. H. WILLIAMS, M.P.S., 161 Wigan Road, Ormskirk, Lancs, left £2,364 (£891 net).

MR. A. WILLIAMSON, M.P.S., 76 Westbank Road, Birkenhead, left £12,074 (£11,875 net).

MR. G. T. WILSON, M.P.S., The Mount, 158 Reddish Road, Stockport, left £7,476 (£7,374 net).

MR. R. S. WHITELAW, M.P.S., Sandyknowe, Bowling Green Road, Cupar, left £10,465.

MISS E. M. WOOD, M.P.S., Greenways, Headbrook, Kington, Herefords, formerly of 18 Bridge Street, Kington, left £9,790 (£9,712 net).

MR. F. WOODCOCK, M.P.S., 7 Grange Avenue, Barrowford, Lancs (district manager, Timothy Whites & Taylors, Ltd.), left £3,285 (£3,181 net).

MR. L. J. B. WATTS, M.P.S., Pillmere, Pill Lane, Barnstaple, Devon, formerly 17 Bear Street, Barnstaple, left £4,930 (£3,414 net).

MR. H. M. WINTON, M.P.S., The Pharmacy, High Street, Elstree, Herts, left £3,971 (£3,463 net).

MR. F. B. H. WRIDE, M.P.S., A.R.P.S., Beaconsfield House, Andover Road, Winchester, Hants (founder and former president of Winchester Photographic Soc ety), left £15,560 (£15,435 net).

PRINT AND PUBLICITY

Medical Propaganda

Manufacturers leaflets, folders, booklets, etc., directed to doctors but available to pharmacists.

ALLEN & HANBURYS, LTD., Bethnal Green, London, E.2: "Ethnine," "Anxine," "Sulpenin," "Helme Elixir," (2-p. leaflets); "Bidental" (card); Guanimycin Oral Streptomycin with Sulphaguanidine (8-p. folder).

ARMOUR LABORATORIES, Hampden Park, Eastbourne, Sussex: "Nidac Tablets," "Pituitary Posterior Lobe Snuff Capsules" (4-p. folders).

BAYER PRODUCTS, LTD., Kingston-on-Thames, Surrey: "Scominol, New Improved Theo-min" (4-p. folder).

C. L. BENCARD, LTD., Park Royal, London, N.W.10: "Paynocol" (4-p. leaflet).

BRITISH SCHERING, LTD., 229 Kensington High Street, London, W.8: "Albicid Eye Drops and Albucid Eye Ointment," "Oblivon," "Albicid Nasal Spray"; "Medimil" (post-cards); "Veramon" (letter to doctors and sampling card).

BURROUGHS WELLCOME & CO., London: "Lergine, A new Anticholinergic Agent" (4-p. folder).

CAMDEN CHEMICAL CO., LTD., 61 Gray's Inn Road, London, W.C.1: "Posafilm Wart Ointment," "Pruvoral Pastilles" (4-p. folders).

CIBA LABORATORIES, LTD., Horsham, Sussex: "Depot Therapy with Crystules and Implants of Steriod Hormones"; "Colemid (Deme-coleine) Antimitotic" (14 p. and 8 p. booklets).

DUNCAN, FLOCKHART & CO., LTD., 155 Farringdon Road, London, E.C.1: "Furadantin, for the Treatment of Bacterial Infections of the Urinary Tract" (2-p. leaflet and cards).

EVANS MEDICAL SUPPLIES, LTD., Speke, Liverpool, 19: "Nobecutane Wound Dressing" (4-p. leaflet).

GEIGY PHARMACEUTICAL CO., LTD., Rhodes, Middleton, Manchester: "Rheumatology Review" (24-p. booklet).

GLAXO LABORATORIES, LTD., Greenford, Middlesex: "Escriptone Injection" (card).

IMPERIAL CHEMICAL (PHARMACEUTICALS), LTD., Wilmslow, Manchester: "Hibitane, An Entirely New Antibacterial Agent"; "Hibitane Antiseptic Cream"; "Hibitane Obstetric Cream" "Hibitane Powder" (4-p., 6-p., 6-p., and 6-p. folders).

ELI LILLY & CO., LTD., Basinskoke, Hants: "Sandril, For the Treatment of Mild Hypertension" (card).

MINLEY & JAMES, LTD., Coldharbour Lane, London, S.E.5: "Eskacillin," "Dapsiral" (12-p. and 6-p. booklets); "Spansule Phenobarbitone" and "Spansule Dexedrine" (cards).

ORGANON LABORATORIES, LTD., Brettenham House, Lancaster Place, London, W.C.2: "Amiescin," "Gestyl" (4-p. and 8-p. booklets).

PARKE, DAVIS & CO., LTD., Staines Road, Hounslow, Middlesex: "Bardase Spasmolytic Sedative Digestive Aid" (6-p. folder); "Milontin Capsules in the Control of Petit-mal Epilepsy" (8-p. booklet); "Eparmitin Suspension," "Milontin Capsules," "Bardase" (cards).

PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD., Dagenham, Essex: "Largactil in General Medicine" (6-p. folder); "Brulidine" (blotter); "Flaxedil Medium-Acting Muscle Relaxant" (48-p. booklet); "Sulphatriad" (4-p. folder); "First Choice, Ansolysen" (card); "Brevidil M Suxamethonium Compounds, Brevidil E Suxethonium Bromide" (36-p. booklet); "Anthisan Cream" (card folder); "Soneryl or Sonalgyn" (blotter); "Anthisan, Phenegan" (4-p. leaflet); "Phenegan Cream" (card); "Largactil in Geriatrics" (6-p. folder).

ROCHE PRODUCTS, LTD., 15 Manchester Square, London, W.1: "Diseases of the Eye, Nos. 1 and 2." (16-p. booklets prepared by the medical illustration department, Institute of Ophthalmology, in association with Moorfields Westminster and Central Eye Hospital, London); "Ronicol" (blotter).

RIKER LABORATORIES, LTD., Loughborough, Leics: "Serpiloid, Injection of Reserpine" (card).

ROUSSEL LABORATORIES, LTD., 847 Harrow Road, London, N.W.10: "Pausandryl" (8-p. booklet).

SHARP & DOHME, LTD., Hoddesdon, Herts: "Penbenemid Suspension," "Cremomyein" (6-p. folders); "Sleep without Barbiturates; Somnos" (4-p. leaflet).

JOHN WYETH & BRO., LTD., Clifton House, Euston Road, London, N.W.1: "Penidural L.A. Injectable," "Penidural All-purpose" (6-p. and 18-p. booklets).

SCOTT & TURNER, LTD., Andrews House, Newcastle-on-Tyne: "Droxalin" (4-p. folder).

THE BRITISH DRUG HOUSES, LTD., Graham Street, City Road, London, N.1: "Entacyl Tablets," "Mycil, The Non-Mercurial Fungicide," (4-p. folders); "Ancolan" (blotter).

Advertising Campaigns

CUSSONS, SONS & CO., LTD., Kersal Vale, Manchester, 7: Imperial Leather toilet and bath soaps. Half-page in *Daily Express* on June 22. And colour page campaign in national magazines.

GILLETT INDUSTRIES, LTD., Great West Road, Isleworth, Middlesex: Rocket razor set, £50,000 worth of advertising in June and July in newspapers and magazines, on posters and on cinema screens.

E. GRIFFITHS HUGHES, LTD., Manchester: Hematabs, in national newspapers and magazines beginning in early June.

MAX FACTOR HOLLYWOOD & LONDON (SALES), LTD., 16 Old Bond Street, London, W.1: Crushed Rose new lipstick shade. Intensive national advertising begins on June 5.

RADIOL CHEMICALS, LTD., 78 Upper Richmond Road, London, S.W.15: Radian-a, in national and provincial newspapers, and women's magazines.

RICHARD HEDNUT, LTD., Power Road, London, W.4: Fair and Peachy Look. Special promotion in June issue of *Vogue*. Full-colour page and black and white advertisements, specially designed showcards and streamers distributed by *Vogue*, and colour blow-ups of the advertisement page for window display.

Display Material

LEHN & FINK (PRODUCTS), LTD., Raynes Park, London, S.W.20: Show material for Hinds honey and almond cream.



Three-piece display set designed to provide point-of-sale support for an advertising campaign for Euthymol tooth-paste by Parke, Davis & Co., Ltd., Hounslow, Middlesex. The three cards, numbered 668, 669, and 670, are available from the company's representatives or direct.

TRADE MARKS

APPLICATIONS ADVERTISED
BEFORE REGISTRATION

From the "Trade Marks Journal," May 25

For chemical substances for use as scouring or cleansing agents for textile fabrics and leather in the course of manufacture (1)

AROSIL, 718,459, by Bohme Fettchemie G.m.b.H., Dusseldorf-Holthause, Germany.

For sensitised cinematograph and photographic films (1)

ZONASTRIPE, 738,091, by Zonal Film Facilities, Ltd., London, W.6.

For activated carbon for use in industry as an absorbent and filtering agent (1)

NYCAR, 740,110, by Lancashire Chemical Works, Ltd., Glossop, Derbyshire.

For non-medicated toilet preparations (3)

KINK, 737,549, by Velkleen Products, London, N.W.1.

For pharmaceutical preparations and substances for stimulating bile excretion (5)

ADBILLE, 729,981, by Chas. Pfizer & Co., Inc., Delaware, U.S.A.

For cotton wool (pharmaceutical) (5)

WOOLTEX, B731,748, by Arthur Berton, Ltd., London, E.C.1.

For preparations for destroying vermin (5)

REXIT, 736,116, by Colthill Granaries, Ltd., Colthill, Norfolk.

For medicated lime-flavoured confectionery (5)

VITALIMES, 739,466, by Thomas Kerfoot & Co., Ltd., Bardsley, Lancs.

For pharmaceutical substances (5)

BIOTRASE, 739,596, by Lloyd Hamol, Ltd., London, S.W.1.

For insecticides and preparations for killing weeds (5)

CLEANACRES, B739,617, by Cleanacres Spraying Co., Cheltenham.

For preparations of yeast for veterinary use (5)

KIT-ZYME, 740,093, by Phillips Yeast Products, Ltd., London, N.W.10.

For optical instruments (9)

BERNOTAR, BIOGON, BRUNAR, DAGOR, KOLPAR, PERIVIST, PLEON, PUNKTAR, SEPTAREM, SPAEROGON, SPORTOUR, TELMIRA, 718,195-206, by Carl-Zeiss, Wurttemberg, Germany.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Sunday, June 5

LONDON PHARMACY RAMBLERS, meet at Polegate station, Sussex, at 11.30 a.m., for ramble via the South Downs. Train leaves Victoria at 9.50 a.m. (strike permitting).

Monday, June 6

BUSINESS EFFICIENCY EXHIBITION, Olympia, London, W.14. Open until June 16.

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, central library, Beckenham, at 8 p.m. Mr. J. E. Davidson, F.P.S., on "Modern Insecticides." Film, "Man Against Insects."

Tuesday, June 7

DARTEORD BRANCH, PHARMACEUTICAL SOCIETY, Wellcome Club, High Street, Dartford, at 8 p.m. Ten-minute papers by members:—Mr. W. A. Smith on "Retail Problems"; Mr. J. A. Fry on "Hospital Pharmacy"; Mr. M. P. Earles on "Academic Pharmacy"; and Mr. D. Stephenson on "Pharmaceutical Development." Followed by questions and discussion.

HARROGATE BRANCH, PHARMACEUTICAL SOCIETY, Fuller's café, Parliament Street, Harrogate, at 8 p.m. Annual meeting.

Wednesday, June 8

EDINBURGH AND SOUTH-EASTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, Minden Hotel, Peebles, at 3.30 p.m. Dr. G. H. Macmoran (assistant resident secretary in Scotland of the Society) on "The Education and Training of the Pharmacist."

MANCHESTER PHARMACEUTICAL GOLFING SOCIETY, High Peak, Buxton, Competition for the Kerfoot trophy and prize.

Thursday, June 9

LEEDS BRANCH, NATIONAL PHARMACEUTICAL UNION, Hotel Metropole, Leeds, at 7.30 p.m. Address by Mr. T. Heseltine (a member of the N.P.U. Executive and of the Central N.H.S. (Chemist Contractors) Committee).

SWANSEA AND WEST GLAMORGAN BRANCH, PHARMACEUTICAL SOCIETY, Langland Bay golf club, at 2 p.m. Open golf meeting. Competition for

the Evans silver challenge cup, Johnson & Johnson tankard, representatives' tankard presented by Sharp & Dohme, Ltd., and other prizes.

Friday, June 10

SWANSEA AND WEST GLAMORGAN BRANCH, PHARMACEUTICAL SOCIETY, Talbot Hall, Mackworth Hotel, Swansca, at 7.45 p.m. Dr. J. M. Rowson (curator of the Society's museum) on "Rauwolfia and some other Hypotensive Drugs."

Advance Information

MERSEYSIDE BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, are visiting Birdsgrove House on Sunday, June 12.

LOCAL OFFICERS

PHARMACEUTICAL SOCIETY

West Kent Branch.—Chairman, Mr. W. R. Roberts; Vice-chairman, Mr. G. J. White; Treasurer, Mr. A. W. Jutton; Assistant Secretary, Mr. L. A. Jupp; Secretary, Mr. W. E. Walton, 184 High Street, Penge, London, S.E.20.

Newcastle and Northumberland Branch.—Chairman, Mr. C. B. Young; Vice-chairman, Miss E. Mathewson; Treasurer, Mr. T. Sisteron; Secretary, Mr. A. McGuckin, c/o 55 Granger Street, Newcastle-on-Tyne, 1.

PHARMACEUTICAL ASSOCIATIONS

North London.—Chairman, Mr. G. B. Daniel; Vice-chairman, Mr. A. E. Footitt; Treasurer, Miss Anne Felton; Assistant Secretary, Mr. J. F. Jack; Secretary, Mr. A. E. Footitt, 5 Mountgrace Road, Potters Bar, Middlesex.

Slough Chemists' Association and Branch.—Chairman, Mr. K. A. Lees; Vice-chairman, Mr. A. F. Saw; Treasurer, Mr. A. J. Campbell; Joint Secretaries, Mrs. Lucas-Smith, 49a William Street, Slough, and Mr. J. C. S. Parsons, 23 Grove Parade, Slough.

South-west London Association and Branch, and South-west Metropolitan Branch, National Pharmaceutical Union.—President of the Association and Branch, Mr. A. T. Morgan; Chairman, N.P.U. Branch, Dr. G. R. Boyes; Vice-presidents, Messrs. M. Lewis and P. Dix; Treasurer, Mr. J. Warburton; Social Secretary, Mr. M. Lewis; Assistant Secretary, Mr. P. Dix; Secretary, Mr. H. R. Edgecombe, 77 Atlantic Road, London, S.W.9.

C. & D. WEEKLY LIST OF PRICES

A=Advanced; R=Reduced; I.R.P.=Inclusive Retail Price; *=Tax 25 per cent.; †=Tax 50 per cent.; ‡=Tax 75 per cent.

ALLEN & HANBURY'S, LTD.
 Allenburs glycerin and blackcurrant pastilles 2 oz. 15 9 1 9 A
 Each 1 lb. 7 10 10 6 A

CIBA LABORATORIES, LTD.
 Antrenyl Duplex tablets 25 9 0
 100 33 6
 500 164 0

GORDON-MOORE (SALES), LTD. (from May 12)

Gordon-Moore's:—
 Cosmetic tooth-paste* 21 9 ½ 2 10 ½ A
 12 11 ½ 1 8 ½ A
 Satin dental cream* 12 11 ½ 1 8 ½ A
 Punch and Judy children's tooth-paste* 12 11 ½ 1 8 ½ A
 Less tooth-paste* 12 11 ½ 1 8 ½ A

HARROGATE PHARMACEUTICALS, LTD.
 Harrogate health salts* No. 1 size 22 0 2 9 A

NEWTON CHAMBERS & CO., LTD. (from June 1)

Izal toilet roll 133 0 1 2 A

SCRUBB & CO., LTD. (from June 1)

Scrubbs' cloudy ammonia 8 oz. 8 3 11 A
 20 oz. 16 6 1 10 A
 Scrubbs' carpet cleaner 10 oz. 18 0 2 0 A

VELVET CREPE PAPER CO., LTD.
 Velvet handkerchief pocket pack 2 8 R 4

ZEB'S LABORATORIES, LTD. (from July 1)

Cabdrivers liqueur linctus* 18 4 2 6
 33 0 4 6
 junior glucose linctus* 12 8 1 9
 22 0 3 0

P.A.T.A. PROTECTED LIST

(Prices notified this week by the Proprietary Articles Trade Association.)

CUPISS, FRANCIS, LTD. (from June 1)
 Cupiss constitution balls* 36 0 4 9 4
 18 4 2 5 4
 cough balls* 18 4 2 5 A
 physic balls* 36 0 4 9 A
 18 4 2 5 A

constitution powders* 1 lb. 48 0 6 4 A

cough powders* 1 lb. 48 0 6 4 A

tonic powders* 1 lb. 48 0 6 4 A

OPTREX, LTD. (addition)

Optone eye drops* 27 9 3 8

P E R P L E X, L T D. (Distributors:—THOS. CHRISTY & CO., LTD.) (additions)

Xaya perfumed cologne

deodorant spray† 51 0 9 6

luxury anti-perspirant spray† 30 0 5 6

body powder deodorant spray† 36 0 6 9

perfumed cologne deodorant refill† 42 0 7 9

luxury anti-perspirant refill† 19 0 3 6

body powder deodorant refill† 20 0 3 9

NEW PRODUCTS AND PACKS

DELAVELLE (G.B.), LTD.

Admiration:—

perfume†	17 4	3 3
	30 8	5 9
	46 8	8 9
	72 0	13 6
	17 4	3 3
	26 6	5 0
	20 0	3 9
	9 9	1 10
	13 3	2 6
	17 4	3 3
	15 6	2 11
	32 4	4 6

stick colognet† 20 0 3 9
 brillantine† 1 oz. 9 9 1 10

2 oz. 13 3 2 6

talcum powder† 17 4 3 3

bath cubes† 15 6 2 11

toilet soap* 32 4 4 6

Devon violets:—

perfume† 17 4 3 3

30 8 5 9

46 8 8 9

72 0 13 6

perfumed cologne† 1 oz. 17 4 3 3

2 oz. 26 6 5 0

stick colognet† 20 0 3 9

brillantine† 9 9 1 10

2 oz. 13 3 2 6

talcum powder† 17 4 3 3

bath cubes† 15 6 2 11

toilet soap* 32 4 4 6

HARROGATE PHARMACEUTICALS, LTD.

Harrogate health salts* No. 2 size 39 6 4 11

S. MAW, SON & SONS, LTD. Hematrix balm* 1½ oz. 20 0 2 11

MAX FACTOR HOLLYWOOD & LONDON (SALES), LTD. (from June 5)

Crushed Rose lipstick† standard size 6 8

refill 3 8

new size 4 5

refill 2 6

PHOTOGRAPHIC DEPARTMENT

JONATHAN FALLOWFIELD, LTD. (distributors)

Raycolor reversal transparency colour film 120 or 620‡ 35 mm.‡ 11 9

10 9

KODAK, LTD. Kodak Sterling II camera‡ 231 11



below
surface
attack

Effective treatment of "athlete's foot", "dhobie itch" and other dermatophytoses requires that the fungicide be carried to the most deep-seated spores. In 'Tineafax' Ointment the fungicides, chief of which is zinc undecylenate, are incorporated in a base of exceptional penetrating power. The advantages of 'Tineafax' Ointment and its companion product, 'Tineafax' Powder (for prophylaxis), are now well established. You may expect an increased demand for both preparations during the coming months. 'Tineafax' Ointment is issued in tubes of 1 oz. and jars of 1 lb., 'Tineafax' Powder in plastic containers of 25 gm.

when fungus is afoot . . .

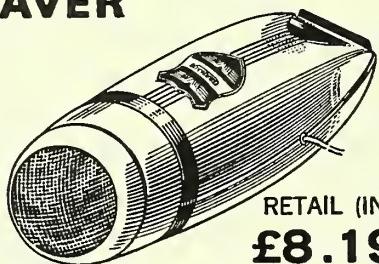
'TINEAFAX'

COMPOUND UNDECYLENATE OINTMENT AND
UNDECYLENATE POWDER



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON

?
ARE YOU SELLING
SWITZERLAND'S FINEST
SHAVER



RETAIL (IN U.K.)
£8.19.0

RICHARD

SWISS HIGH PRECISION

ELECTRIC SHAVER

Through your usual wholesaler
or direct from **B. H. RIES LTD.**

19-21 HATTON GARDEN, E.C.1

Kwick-dry

(HOUSEHOLD)
PAPER TOWELS

In Perforated Rolls at 1/11

FOR THE MODERN HOUSEWIFE

They save work and drudgery, serving a multitude of purposes in the Kitchen.

FOR DRYING HANDS : POTS and PANS : CLEANING : DRAINING FRIED FOOD, etc.

Of soft, pleasing, crepe texture, KWICK DRY TOWELS are very absorbent, can be squeezed like a cloth and, being actually stronger when wet, they do not disintegrate. Our attractive Plastic Holders in colours to match Kitchen Units retail at 4/-.

This NEW Hygienic habit is catching on—encouraged by Press advertising. Attractive Showcards available on request.

Samples and prices from the Paper Specialists:—

FREEDER BROTHERS PAPER MILLS
BRIMSDOWN • ENFIELD • MIDDLESEX

Telephone: HOWard 1847 (5 lines).

Grams: Sylkocrepe, Enfield



**Still the most
reliable remedy
for Rheumatism**

For nearly 40 years Curicones has been kept abreast of medical research. With its present formula, it is certainly the most reliable general remedy you can recommend to Rheumatic sufferers.

And its advertising is never allowed to get in a rut. Now that it is being stepped up in volume, watch Curicones sales begin to grow. Never let yourself run out of stock of the 5/4, 13/4 or 25/6 sizes.

We still have small supplies left of our novel "weather indicator" showcard. It is most effective and surprisingly accurate. Send us

CURICONES

your name
and address
for one and
see the interest it attracts.



AND

P.A.T.A.

STEPHEN MATTHEWS & CO., LTD.,
19/21 Farringdon Street, London, E.C.4

**STANDARD
SYNTHETICS
L I M I T E D**

Distillers of ESSENTIAL OILS since 1923

*Manufacturers of AROMATICS, PERFUME
BASES AND FLAVOURS.*

*We specialise in CINNAMON BARK OIL,
JUNIPER BERRY OIL,
WINTERGREEN OIL,
FRENCH LAVENDER OIL,
TERPENELESS LEMON OIL,
PEPPERMINT OILS, PERFUME
BASES, ETC.*

**76 GLENTHAM RD., BARNES
LONDON - S.W.13**

Telephone: RIVerside 3616

*Managing Director:
JOHN LESLIE HINDLE, B.Sc.*

Sell your customers a comb they can trust

TAIL COMB 8" 284/8

THE PRINCE OF
WALES 5" 2297/5

THISTLE, LADIES' DRESSING COMB 7½" 1553/7½



MILITARY 7" 1007/7

You make profits and create goodwill when you sell North British Vulcanite Combs, because they are—

- Sterilisable ● Hygienic
- Tough and flexible in use
- Quality-made for long life
- Easy to keep clean
- Kind to the scalp

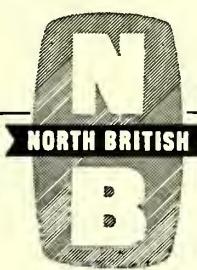


EXPRESS, SMALL TOOTH 3" 611/3



THISTLE, SMALL TOOTH 3" 677/3

There's a complete range of North British Vulcanite Combs for men, women and children. Full details from your usual Wholesaler, or send for illustrated leaflet to:—



Vulcanite
C O M B S

THE NORTH BRITISH RUBBER CO. LTD • CASTLE MILLS • EDINBURGH 3

PHOTOGRAPHY AIDS INDUSTRY & PROMOTES SALES

We offer you the most efficient Photographic Service at reasonable charges incorporating COMMERCIAL, INDUSTRIAL & TECHNICAL PHOTOGRAPHY

- OPERATORS SENT ANYWHERE
- MANUFACTURERS SAMPLES FOR CATALOGUES
- INTERIORS AND EXTERIORS



- CONFIDENTIAL PLANS AND DOCUMENTS COPIED
- SPECIALISTS IN EXHIBITION STAND PHOTOGRAPHY

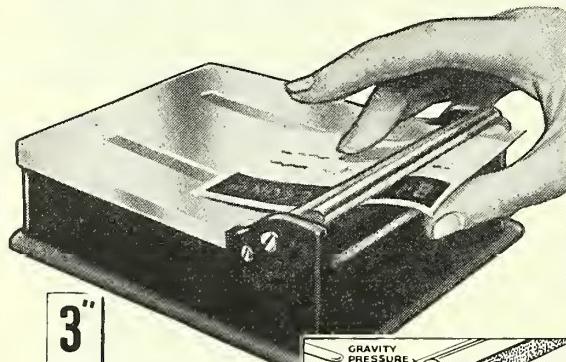
Phone MAR. 1912 for our Representative to call and discuss your requirements without obligation

PHOENIX PHOTOGRAPHICS

PHOTO FINISHERS TO THE TRADE

53 Leytonstone Road, Stratford, E.15. : Tel. MARYland 1912

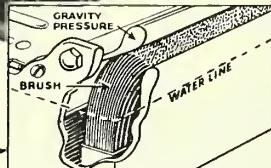
Speed up your Despatch-



3"

LABELLER

For instruction slips, Poster Stamps, etc. PRICE 25/-



-with just a flick of the fingers

The Labeller is clean and speedy in operation; with the brush moistening device labels are just "flicked through" between the pressure bar and over the brush and this ensures not too much or too little moisture to the labels, just sufficient all over moistening to gummed surface.

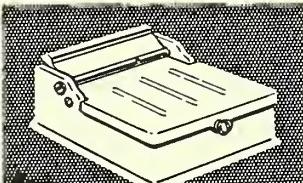
The Labeller is made in red porcelain finish with a bright nickel feed plate over the tank.



BUTTERFLY BRAND

LIGHTNING LABELLER

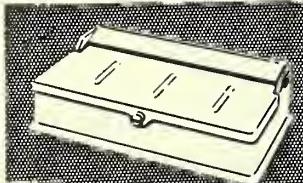
Send for Illustrated Leaflet to:-
SAMUEL JONES & CO., LTD.
NEW BRIDGE STREET, LONDON, E.C.4. Tel: CENTRAL 6500



5"

LABELLER

This is a general purposes model with a 5" brush suitable for the average parcel label. It will moisten labels up to 5" width. PRICE 32/6



9"

LABELLER

Our largest model will be found useful in packing depts. for larger package and bale labels. Dampening width is 9". PRICE 60/-

THE NEW LAVATORY PAN CLEANER
SWISH!
CLEANS - DEODORISES
DISINFECTS...



EVERY TIME
the PAN is
FLUSHED

A modern disinfectant. Stainless steel and plastic fitting holds disinfectant block—COMPLETE UNIT RETAILS AT 2/6d. Big Discounts, quick repeats on refills retailing at 9d.

OTHER NEW HYGIENE PRODUCTS that keep the sweetness in "Home Sweet Home"

SCENTINEL Nos. 1, 3, 4
deodorisers in attractive containers for hanging in lavatories, kitchens, wardrobes

QUIFF, WHAM & AIROGENA
Space and Jet sprays for disinfecting, Insecticide or as Deodorants. Each in new style "Poly-puff" Polythene bottles

SCENTINEL MOTTOS
Individual tablets to hang or scatter

PAPER TOWELS, TOILET ROLLS AND PACKS
CHANNEL BLOCKS
for men's toilets

NEW HYGIENE LTD.
266-8 HOLLOWAY ROAD, LONDON, N.7
Phone : North 5041-2-3 Groms: "Airogeno, Holwoy" Code : ABC 6th

BRANNAN GUARANTEED THERMOMETERS

CLINICAL - HOUSEHOLD - INDUSTRIAL

When ordering Thermometers, insist upon Brannans — made by highly skilled workers at Britain's most modern Thermometer Factory.

S. Brannan & Sons Ltd.

Clinitherm Works,
Dalmain Road, Forest Hill,
London, S.E.23

Telephone: Forest Hill 3414 P.Ex.

Northern Factory:
Cleator Moor
West Cumberland
Tel: Cleator Moor 310



Please ask your usual wholesaler to show you our range, or write to us for Catalogue and Price List.

DE-LUXE MODELS

are made from 4 mm. optical sheet; fitted with nickel-silver screw-joints and N/S wire-cored temples.

Each frame carefully hand-finished and polished.

Available fitted with either

"CROOKES"
Smoke Lenses
or
Full-Mirrored
Lenses

Sole Manufacturers:

**BUY
BRITISH**

SUN Spectacles

**THIS
SEASON!**

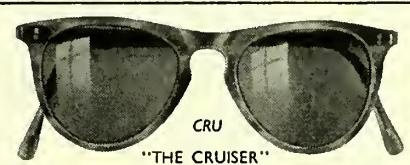
DE-LUXE MODELS



DUK
"THE DUKE"



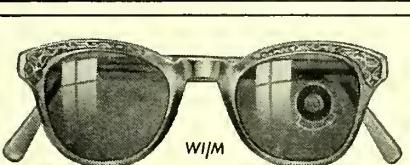
ELI
"THE ELIZABETHAN"



CRU
"THE CRUISER"



FAI
"THE FAIRVUE"



WI/M
"THE GOLDEN BROW"



DSL
"THE WINCHESTER"

OPTICAL PRODUCTS LTD., 370/2 STATION ROAD, FOREST GATE, LONDON, E.7.

MARYLAND 1766 & 1550

TRUST ALL your takings to the 3-WAY PROTECTION of the VIGILANT

2-TOTAL Model No. 132(7)2 For the Pharmaceutical Trade

(IMMEDIATE DELIVERY)

5 YEARS GUARANTEE ★ MADE IN DUNDEE



Designed to PROTECT & built to ENDURE

THE NATIONAL CASH REGISTER COMPANY Ltd.

206-216 Marylebone Road, London, N.W.1, and all principal business centres



CENTENARY 1845-1945

**"Eagle" Brand Chemicals**

PHOTOGRAPHIC CHEMICALS
HYPOSULPHITE SODA
SULPHITE SODA
(Crystals and Anhydrous)
EPSOM SALTS B.P.
GLAUBER SALTS B.P.
PRECIPITATED SULPHUR B.P.
ACCUMULATOR ACID

Enquiries Invited

JOHN RILEY & SONS, LTD
HAPTON, NR BURNLEY

Grams: "Rileys" Hapton

Phone: Padham 290/1

Why **WARMABED**

Electric Blankets are best sellers!



Send for
WARMABED
Sales Aids
Brochure

WIDELY recommended for their efficiency and reliability and carrying the Good Housekeeping Certificate, Warmabed Electric Blankets are no less in demand because they are of 100% pure wool in lovely pastel shades.

The attractive series of Sales Aids supplied on request to Stockists, and our national advertising ensure big sales. Write for Catalogue and Trade Terms.



**MODERN ELECTRICAL
INDUSTRIES LIMITED**
KNOTTINGLEY, YORKS.

Tel.: Knottingley 51. Grams and Cables: "Warmabed, Knottingley"

GUARDIAN OF YOUR PROFIT



REGNA
CASH REGISTER

H.P. TERMS ARRANGED

PRICES UNDER £100

Telephone TRAfalgar 3718

(Proprietors: The Joeli Safe Co. (London) Ltd.)

THE REGNA CASH REGISTER CO
7 YORK PLACE, ADELPHI, LONDON, W.C.2

Dyanese FADELESS
DYES

2'd STOCKING (except Black) ... 20/- gross

4d. COLD WATER, CURTAIN
and Black Stocking Dyes ... 32/- gross

Order Dyes and Shade Cards from our Agents:
Gt. Britain: W. B. Cartwright Ltd., Rawdon, Leeds;
N. Ireland: T. M. Mullan & Co., Ltd., 42 Victoria
Street, Belfast. Eire: May Roberts (Ireland) Ltd.,
Grand Canal Quay, Dublin, C.6

GALIC ACID PYROGALIC ACID

(RESUBLIMED, PURE CRYSTAL AND TECHNICAL)

AND DERIVATIVES

WHOLESALE AND EXPORT ONLY

J. L. ROSE, LIMITED, ABBEY ROAD, BARKING ESSEX

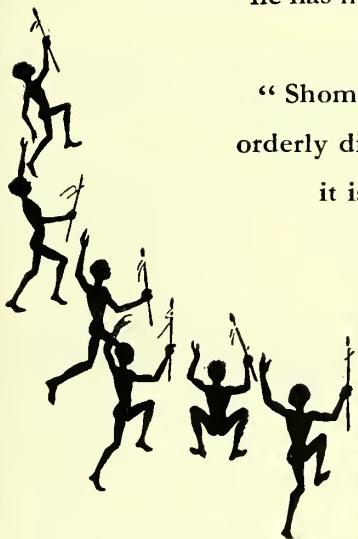


The days of witch doctors and charms are now lost in the background of modern civilisation.

But the modern "medicine man" must still charm his customers with an array of goods at one time never dreamt of by most of us,

he has now more competitive lines and must show them in an attractive sales compelling manner.

"Shomore" display equipment is ideal with its inviting, yet orderly display, and for its practical design *behind* the counter it is indeed "good medicine" for every chemist's store.



Write NOW for our Booklet

**'PROFITABLE
DISPLAY'**



Shomore

PARNALL AND SONS LTD · LODGE CAUSEWAY · FISHPONDS · BRISTOL

TABLETS AND TOYS . . .

But there is something in common between the vinyl plastic doll and tablets, for both contain Sturge Precipitated Calcium Carbonate. This fine chemical, made under controlled conditions from specially-selected limestone, is supplied in twenty-four coated and uncoated grades to suit a variety of industrial and pharmaceutical purposes. Choose the grade that best suits your product—you can be certain of the highest purity and uniformity. Write for STURGE Technical Leaflets describing the grades of Precipitated Calcium Carbonate.

STURGE P.G.C. FOR :

DENTIFRICE AND COSMETICS. PAINTS AND PRINTING INKS. DRUGS. PAPER-MAKING AND COATING. RUBBER AND PLASTICS.



STURGE PRECIPITATED CALCIUM CARBONATE

Manufacturers of fine chemicals since 1823

JOHN & E. STURGE LIMITED, 1 WHEELEYS ROAD, BIRMINGHAM, 15. TEL: MIDLAND 1236/7

TG PPC9

BISKS BRING BUSINESS



THERE'S BIG MONEY FOR YOU IN SLIMMING!

No longer is there any need for belts, exercises or drugs. Just eat BISKS and 'Square' meal; to get rid of unwanted fat. Your customers will thank you for making it so easy for them to slim. This is the slimming method that has swept America.

BISKS are being advertised in all the leading Women's papers. Show material available. Bisks retail at 4/6 and 8/6.

-SO STOCK UP NOW!

ANDOMIA PRODUCTS LTD

GRANT STREET

BRADFORD, 3

RANSOMS

process for the trade

**ROOTS, BARKS, LEAVES,
FLOWERS, SEEDS, ETC.**

In addition to processing the medicinal plants grown on their own farm, Ransoms are meeting an increasing demand from the pharmaceutical and allied industries for the extraction or other treatment of raw materials such as roots, barks, leaves, flowers, seeds, etc., supplied by customers themselves. Ransom's experience in processing medicinal plants for over a century places them in a unique position for assisting those in the industry who prefer to buy their own raw materials but who have not the equipment or specialised staff to carry out such operations.

Ransom's processing for the trade also includes a complete manufacturing service for the production and packing of proprietary and other preparations to customers' own formulas. This manufacturing service is conducted under the supervision of qualified pharmaceutical, chemical and research personnel in the modern laboratories of Ransom's factory at Hitchin.

Enquiries invited on any problem connected with the processing of medicinal plants, raw materials, or the manufacture and packing of proprietary products.

Established 1846

WILLIAM RANSOM & SON LTD.

Manufacturing Chemists and Medicinal Plant Growers for over a Century

HITCHIN

HERTFORDSHIRE



'RELIANCE' NATURAL SPONGES



REQUESTED
EVERWHERE
—naturally

More and more people are realising that no substitute can equal the qualities of a

NATURAL DEEP SEA SPONGE

Natural deep sea sponges are softer, kinder to the skin, hygienic, and hold three times more water than any substitute. More and more of your customers are realising this every day. That is why to display natural sponges is to SELL THEM !

Cresswell's have been in the Sponge Trade for more than 150 years, and as the largest bulk buyers of Natural Sea Sponges, Cresswell's get THE BEST WHEN THE SPONGE CROP IS FISHED.

**PLEASE WRITE FOR PRICE
LISTS and DETAILS
OR FOR OUR
REPRESENTATIVE TO CALL
CRESSWELL BROS. SPONGES**

(World Natural Sponge Suppliers Ltd.)

LARGEST PROCESSORS AND STOCKISTS
OF NATURAL SEA SPONGES IN THE
WORLD

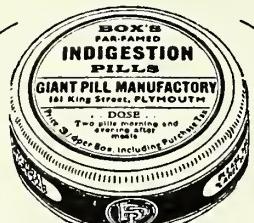
INTERNATIONAL BUILDING,
BUCK ST., CAMDEN TOWN,
LONDON, N.W.1

Phone : GULiver 5462/3

Grams: SPONGE, NORWEST, LONDON



There's no off-season for



BOX'S

INDIGESTION PILLS

*The Old Established
Family Remedy*

P.A.T.A. Retail Prices :

1/5, 3/4, 5/5, 13/4, 24/2 (incl. tax)

W. H. BOX, 161 KING STREET, PLYMOUTH



CARR'S VITAMIN B₁

PREPARED WHEAT GERM
A RICH NATURAL SOURCE OF
VITAMINS B and E

TWO SIZES 1/9 or 3/-

Trade 16/- doz. or 27/- doz. FREE NON-RETURNABLE CARTONS

From Principal Wholesalers or from the Manufacturers

CARR'S CEREAL PRODUCTS LTD.
CARLISLE

For Safe Control of
Body Odour & Bad Breath

Odoban
TABLETS

Nature's Deodorant



Manufactured in England by BROOK, PARKER & CO. LTD., BRADFORD

Pattinson's

REGISTERED BRAND PRODUCTS

- LIGHT & HEAVY MAGNESIUM CARBONATES B.P.
- LIGHT & HEAVY MAGNESIUM OXIDES B.P.
- MAGNESIUM OXIDE LEVISSIMA
- MAGNESIUM HYDROXIDE B.P.C.
- MAGNESIUM TRISILICATE B.P.
- CREAM OF MAGNESIA B.P.

Our Research Division welcomes enquiries from any manufacturer with a problem in which any of the above products are concerned. Please write to our Sales Technical Department if you require fuller information.

for the
PHARMACEUTICAL
Industry

THE WASHINGTON CHEMICAL CO. LTD.

A member of the TURNER & NEWALL ORGANISATION
WASHINGTON · CO. DURHAM · ENGLAND

TOWNSEND'S

"Daintee"
Karriers

MAKE ALL THE DIFFERENCE
AT THE TOILET COUNTER

Samples with pleasure

James Townsend
AND SONS LIMITED

SPECIALIST CHEMISTS' PRINTERS

P.O. BOX No. 12

2, LITTLE QUEEN STREET, EXETER



This really fast selling NATIONALLY ADVERTISED product shows 75% profit on cost. Is packed in most attractive polythene self spray bottles and carton.

★
Showcards, Window & Counter streamers, own name printed handouts, etc. and other advertising material free on request.

New "PRIDE OF LONDON" Lines

PRIDE COLOUR STREAK, for lovely Tints, Streaks, High Lights in brush capped bottles. Retails 3/9.

PRIDE SPRAYING BRILLIANTINE, an ultra light high gloss tonic brilliantine in self spray polythene bottle. Retails 3/9.

LONDON SNOW, EGG and LEMON cream nutritive shampoo. Small size in boxes, sufficient for 3 shampoos (in 3 dozen display outers). Retails 9d. In family sized jars. Retails 3/9.

From your usual wholesaler or direct

B. N. FURMAN (PRODUCTIONS) LTD.
133 FONTHILL ROAD, LONDON, N.4. Archway 1105



Mysore Government Sandalwood Oil consignment being loaded at Bombay Port for transhipment to London Stock of the Trade Agent, per Air India International planes maintaining a 24 hour service between India and U.K.

MYSSORE

Sandalwood Oil

For further information apply to:

TRADE AGENT FOR MYSORE
9 Clifford Street, London, W.1

MANESTY

AUTOMATIC WATER STILLS

WITH THE NEW

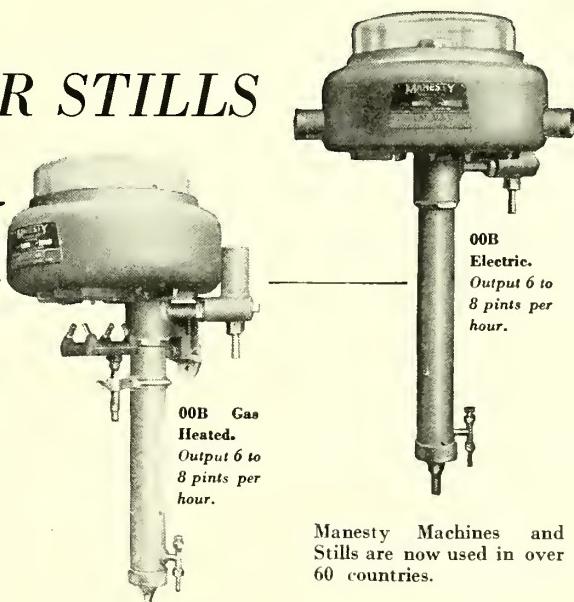
VITREOUS FINISH★

The MANESTY OOB Automatic Water Still, gas, paraffin or electrically operated model, is now available in the new vitreous finish. Simply installed, Manesty Stills ensure a constant supply of fresh pure distilled water at extremely low running costs. No storage, handling or transport problems arise, and to save further floor space, a wall bracket is provided for each model.

MANESTY STILLS are available for outputs ranging from 2 pints to 50 gallons per hour.

For further details send for our fully illustrated leaflets.

★ Vitreous enamelled boiling chamber (inside and outside) Condenser Pipe, Wall bracket and Weir Chamber. Other fittings chromium plated.



OOB
Electric.
Output 6 to
8 pints per
hour.

Manesty Machines and
Stills are now used in over
60 countries.

MANESTY MACHINES LIMITED

DEPT. 5 • SPEKE • LIVERPOOL 19

Telephone: Hunts Cross 1972

Telegrams: Manesty, Liverpool 19

TABLET MACHINES • COATING PANS • GRANULATORS • MIXERS • PUNCHES and DIES

ferrania

SUPERPAN FILMS

*for
speedy
sales*



ROLL FILMS. Superpanchromo F20 2/11, F620 2/11, F27 2/7, F16 3/8, F616 3/8, F29 2/11.

35 mm. FILMS. P.3 Fine Grain Pan, and S.2 Superpanchromo cassettes, 36 exposures, 8/9. Refill, 36 exposures, 4/6. Refill, 3 x 36 exposures 12/1. Refill, 10 x 36 exposures, 36/11.

NEVILLE BROWN & CO., LTD.
77 NEWMAN STREET • LONDON • W.I Telephone: LANGham 7161 (10 lines)

ferrania CAMERAS



IBIS 27 ... £3 15 0
IBIS 6 x 6 ... £4 18 6



DISTRIBUTED
by
NEBRO

ELIOFLEX ... £11 18 6

EPHAZONE TABLETS

Rational, symptomatic treatment in
ASTHMA & BRONCHITIS

Each tablet contains Ephedrine, the important anti-spasmodic for bronchial spasm, Theobromine, for its relaxing effect on the bronchial muscle and for stimulation of the coronary circulation, Phenazone, for its soothing effect on the higher centres, and Calcium gluconate, a readily absorbable calcium salt, for diminishing capillary permeability and checking the secretion of mucus.

These active ingredients with complementary effects in bronchial asthma are presented in the following proportions in the 'EPAZONE' Tablet:

Ephedrine

hydrochloride - - - $\frac{1}{2}$ grain

Theobromine - - - - $\frac{1}{2}$ grain

Phenazone - - - - 1 grain

Calcium gluconate - - $\frac{1}{2}$ grain

This preparation is sanctioned for prescription under N.H.S.

EPHAZONE LTD. 59 Brook St., London, W.1. Tel: Mayfair 5496



Keep it
**DARK with
SHADEINE**

—Your SALES are assured if
you stock SHADEINE!

Still the best hair tint, in all natural shades.
Stocked by all wholesalers. Trade prices—1 oz.
18/- per doz., 2 oz. 29/7 per doz. Purchase Tax
75%. Retail Prices 3/1 $\frac{1}{2}$ and 5/2 per bottle
respectively. Also the new GOLDEN SHADEINE
for lightening mousey hair, 2 oz. 18/- per doz.
Purchase Tax 75%. Retail Price 3/1 $\frac{1}{2}$ per bottle.



THE SHADEINE COMPANY
49 Churchfield Rd., Acton, London, W.3.

Why you should try the Mirror Toothbrush yourself

IF you are as honest as most pharmacists you will be quick to admit that, although you know the backs of your teeth need cleaning just as much as their fronts, it is very doubtful if they get the attention they need.

The fact is that, without looking at the backs of your teeth, you cannot even see where they need cleaning, let alone do the job really properly.

That is why we have introduced the Wisdom Mirror Brush. This consists of a Wisdom Flextron toothbrush with a dental mirror at the other end. It is a simple and obvious idea but the difference it makes to tooth-cleaning is amazing. For the first time you can see the backs of your teeth—where most dental troubles start. You can see the danger spots that need attention most—and watch the progress you make in cleaning them up.

If only for the difference it can make to your own teeth you should try the Wisdom Mirror Brush. But the Mirror Brush is equally valuable to all your customers who still have their own teeth. That means it can be a very profitable line to handle. Big space advertising for the Wisdom Mirror Brush will shortly be appearing in all the leading nationals. Put it on display on your counter and tell your customers about this important innovation in dental hygiene. Retail price is 2/6. Mirror Toothbrush orders count towards Wisdom quantity terms in the usual way.



BOTH ENDS of the new Mirror Toothbrush serve to make teeth look brighter! At one end, a handy dentist-type mirror for close inspection of danger spots in out-of-the-way places; at the other, Wisdom's now-famous springy Flextron tufts. Each brush comes in its own smart plastic pack.



A NEW LINE FOR YOUR SMARTEST CUSTOMERS . . .

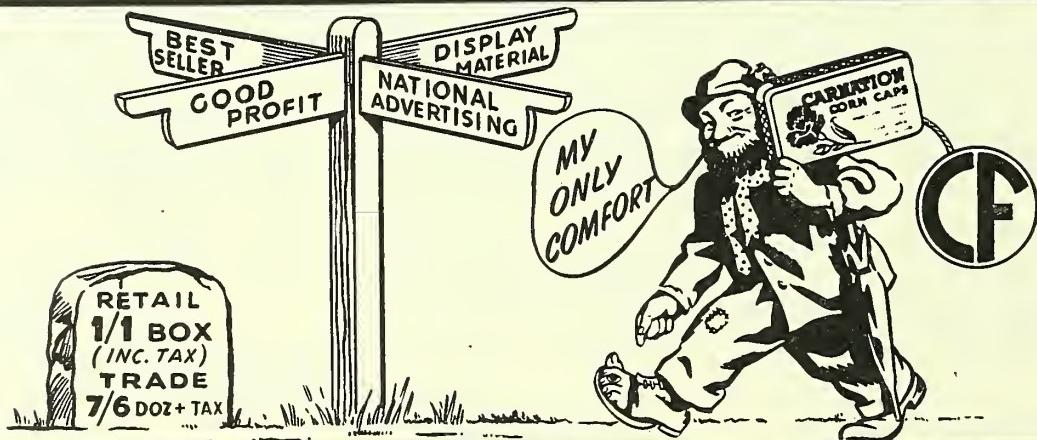
Raymond
Colour Rinses

- * Impart a delicate hair perfume.
- * Remain true to shade until washed out.
- * No setting lotion required.
- * Special dropper bottle for neat application.
- * Ten shades: TORCHLIGHT TITIAN · SKY BLUE
DRAB BLONDE · FIRELIGHT AUBURN
MOONLIGHT GREY · SILVER · CHARCOAL
SUNSHINE BLONDE · SUMMER ROSE
SUNLIGHT DARK BROWN
- * Retails at 7/6. Price to you 3/4 (plus 2/4½ P.T.) less 5% discount, in lots of one dozen assorted shades.
- * Half-page advertisements to appear in leading Women's Magazines.



Distributed by WARNER, HARVEY & CO. LTD., 28b Albemarle Street, Mayfair, London, W.I

CARNATION CORN CAPS

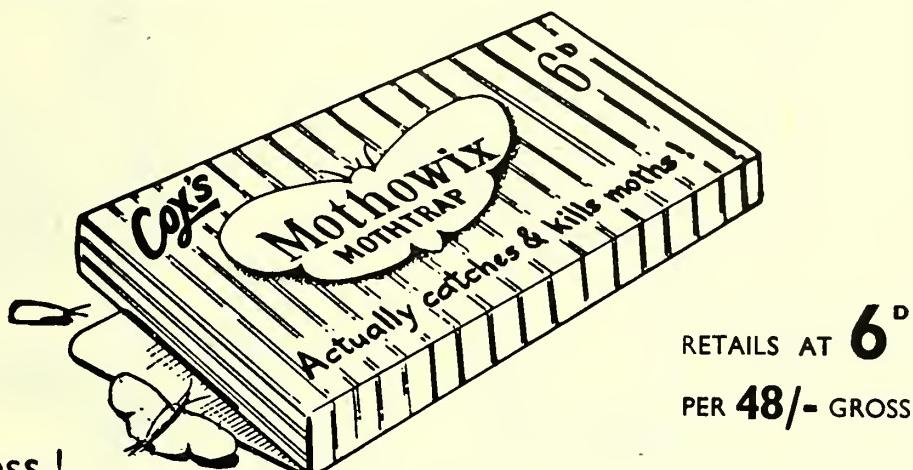


Still the most popular Corn remover

and for Callouses — CARNATION CALLOUS CAPS
A PRODUCT OF

Cuxson, Gerrard & Co. Ltd.
OLDBURY • BIRMINGHAM.

"MOTHOWIX" MOTHTRAP



- ★ Odourless !
- ★ Actually catches and kills moths !

order with

Cox's

THE ORIGINAL

D.D.T. FLYCARDS

Cox's 3d.	D.D.T. FLYCARDS (THE ORIGINAL)	...	24/-	PER GROSS
Cox's 3d.	D.D.T. CHIMPS...	...	24/-	" "
Cox's 4d.	D.D.T. PARROTS	...	32/-	" "
Cox's 4d.	D.D.T. ROSE BASKETS	...	32/-	" "
Cox's 6d.	MOTHOWIX MOTHTRAPS	...	48/-	" "

LESS 2½% MONTHLY ACCOUNT

BONUS TERMS—10% ON ORDERS FOR 3 GROSS

THIS OFFER APPLIES TO ORDERS FOR FLYCARDS AND MOTHOWIX
IN ANY ASSORTMENT

JAMES COX & CO., D.D.T. WORKS, STH. HARROW, MIDDLESEX. Telephone: BYRON 4326

*Women today,
more than ever before,
are believing that . . .*

. . . IF IT'S

Evan Williams

IT'S GOOD
FOR THE HAIR!

EVAN WILLIAMS HAIR BEAUTY PREPARATIONS · SHAMPOOS
COLOUR RINSES · BRILLANTINE · WAVE SET

• DISPLAY and SELL
RIDDELL ASTHMA
• PRODUCTS • P.A.T.A.



A RIDDELL customer is a regular client, and our products are known and appreciated by ASTHMA sufferers the world over.

INHALERS:

PNEUMOSTAT Electric Inhaler (Patent).

SUPER PAG and DRITAX Hand Inhalers.

ASTHMATOR and RIDDOPAG Pocket Inhalers.

RIDDOSAN OIL Inhaler, PAG PUMP.

PRODUCTS:

RIDDOBRON and RIDDOVYDRIN Inhalants.

RIDDOBRON Tablets and Ointment.

RIDDOSPAS SUPPOSITORIES and CAPSULES.

RIDIOPIN and RIDDOSAN OILS.

• RIDDELL PRODUCTS LTD •

TELEPHONES :

PIONEERS OF INHALATION THERAPY

BIS. 0843-4-5

Riddell House, 10-14, Dunbridge Street, London, E.2

II MANSFIELD CHAMBERS, ST. ANN'S SQUARE, MANCHESTER, 2

AND
TEL: BLACKFRIARS 2894



Fast moving

“dor”

now also available in
stick form

“dor”, the cream that introduced many thousands of women to the deodorant field, is now also obtainable in stick form. This new product, so tastefully presented in a charming pink plastic container, will retail at 1/9. It is easily applied and convenient to use.

* **the rush is on . . .**

Demand for “dor” stick has been heavier than we ever expected. We are doing our level best to keep orders up to date. If your order is slightly delayed — our sincere apologies.



F. W. HAMPSHIRE & CO. LTD., MANUFACTURING CHEMISTS, SUNNYDALE, DERBY



important message for all

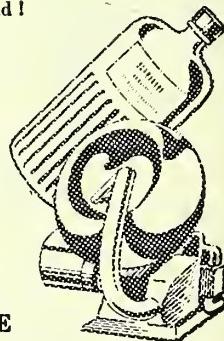
PROPRIETARY MANUFACTURERS

If you manufacture proprietary lines, we think you ought to know that *all* your galenical requirements can be met from a single source. Yes we hold stocks of an extensive range of these drugs—and all at highly competitive prices. We can offer, too, a complete processing service and will make up any line precisely to your own formulas and specifications. This way you can always be sure that output will keep pace with demand! If you have a problem on proprietary manufacture, please let us know—we probably have the answer.

Write, 'phone or wire your requirements :

HARKER STAGG LIMITED
EMMOTT STREET, LONDON, E.1
TEL: STEPNEY GREEN 2022
GRAMS: GALENICALS, EASPHONE, LONDON

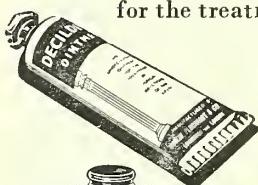
- GALENICALS
- TABLETS
- COMPLETE PROCESSING SERVICE



Modern Treatment for **FUNGOUS SKIN INFECTIONS**

It is now firmly established that the skin protects itself against infection by its "acid mantle." Experiments have proved that the higher fatty acids are extremely effective fungicides which do not produce contact dermatitis.

Deciderm Ointment and Powder (Duncan) present the particularly effective fatty acid, undecylenic acid, and its zinc salt. Both preparations are pleasantly perfumed and are easy to apply. They can be used for long periods, if necessary, and are valuable for the treatment of tinea pedis (athlete's foot), tinea cruris (dhobi itch), moniliasis, etc.



DECIDERM OINTMENT (Duncan)

1 oz. tubes (Undecylenic acid 5%—zinc salt 20%)

DECIDERM POWDER (Duncan)

2 oz. sprinklers (Undecylenic acid 2%—zinc salt 20%)

Prices and literature on request,

DUNCAN, FLOCKHART & CO. LTD.,

EDINBURGH

LONDON

D C (B) L products are distributed as follows**PHARMACISTS IN RETAIL PRACTICE**

D C (B) L pharmaceutical products may be obtained through wholesalers or direct from these pharmaceutical houses, who act as our "Initial Distributors."

	ALLEN & HANBURY'S LTD. <i>Bethnal Green, London, E.2.</i>	THE BRITISH DRUG HOUSES LTD., <i>Graham Street, City Road, London, N.1.</i>	BURROUGHS WELLCOME & CO., <i>193 Euston Road, London, N.W.I.</i>	EVANS MEDICAL SUPPLIES LTD., <i>Speke, Liverpool, 19.</i>	IMPERIAL CHEMICAL (PHARMACEUTICALS) LTD., <i>Fulshaw Hall, Wilmslow, Manchester.</i>	PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD., <i>Dagenham, Essex.</i>
Sodium Penicillin G	X	X	X	X		X
Potassium Penicillin G (buffered)	X	X	X	X		X
'Distavone'	X	X	X	X		X
'Distivit' B12			X	X		
'Distaquaine' products	X	X	X	X	X	X
All other pharmaceutical products	X	X	X	X	X	X

'Distafeed' Penicillin Supplement
'Distafeed' Riboflavin Supplements }
'Distafeed' Vitamin B12 Supplement } These animal nutrition products are obtainable through wholesalers only.

W H O L E S A L E R S

Pharmaceutical products—Wholesalers should order our pharmaceutical products
from "Initial Distributors" (see above)

'Distafeed' brand animal nutrition products—Wholesalers should order 'Distafeed' products direct from us

If in difficulty contact us direct or through our representative

All names printed in single quotes are trade marks, the property of

T H E D I S T I L L E R S C O M P A N Y
(Biochemicals) Limited



DEVONSHIRE HOUSE, PICCADILLY, LONDON, W.1

**A NON-ADHERING
TREATMENT OF BURNS AND SCALDS**

BORNOLIN

*Ol. Morrhue, Ol. Hippoglossi, Vitamin D.
incorporated in sterile Paraffin. Molle.*

**SUPPORTED BY REGULAR ADVERTISING IN
THE MEDICAL PRESS**

★
Also Direct Mail and Personal Propaganda is
energetically maintained.

★
We ask for your co-operation in the distribution
of this useful product.

**PRICE TO YOU 27/- doz.
RETAILING AT 3/- per tube**

I-lb. Jars for Dispensing only, 20/- each net.

**For the treatment of
DRY OR SQUAMOUS DERMATOSIS
PSORIASIS • LICHEN PLANUS
EPIDERMIDOMYCOSIS
EPIDERMIDOPHYTON • TROPICAL TINEA**

ANAXERYL BAILLY

IS PARTICULARLY APPROPRIATE

★
**CONSTITUENTS : Dioxyanthranol, Ichthomol, Salicylic Acid, Resorcin,
Balsam Peru, Ol. Rusci. in Paraffin. Molle base.**

★
**PRICE TO YOU-40 gm. Tube-31/6 per doz. incl. P.T.
RETAILING AT 3/4 per tube**

I lb. Dispensing Pack... 15/- each

BENGUE & CO., LTD.



Manufacturing Chemists, MOUNT PLEASANT, ALPERTON, WEMBLEY, MIDDLESEX



QUESTIONS

(theirs)

AND

ANSWERS

(yours)

3/6 A TUBE

*Trade Price 18/8 per doz. plus 75% P.T.
Display outer and showcard supplied.*

CAMILATONE LTD., EDGWARE ROAD, LONDON, N.W.9

Q: What's the best way to give my hair natural auburn colouring?

A: With Camilatone Synthetic Henna-Cream—most definitely. It brings lovely auburn tints to all shades of hair ranging from mid blonde to the darker browns.

Q: Can I apply it myself?

A: Yes indeed! Synthetic Henna-Cream is so easy to use. Just massage the cream into your hair after your shampoo, then rinse.

Q: I hope the colour is not too vivid.

A: You can vary the tone by the length of time you leave on the cream before rinsing. The Time Chart enclosed with each tube will show you how to make the colour test beforehand.

Q: Will the colour last?

A: Oh yes! Through several shampoos.

Q: Is it likely to affect my hair?

A: No on the contrary, Synthetic Henna-Cream is itself a wonderful conditioner. And it won't affect your perm, though you should apply it after a perm and not immediately before.

**CAMILATONE
SYNTHETIC
HENNA-CREAM**

NOTE
HO NO
WE HO
HO \$

IRON IN AN EASILY ASSIMILATED FORM

Ferrous Gluconate

B.P.C.

The new remedy in iron therapy without side effects.
Recommended for tabletting or use in elixirs, etc.

Available for delivery from stock.

A quality

product of

KEMBALL, BISHOP & CO., LTD.

CROWN CHEMICAL WORKS

THREE MILL LANE : BROMLEY-BY-BOW : LONDON : E.3.

Telephone: ADVANCE 1234 (7 lines)

Telegrams: KEMBALL, BOCHURCH, LONDON.



ROTER contains
NO NARCOTICS
and has
NO SIDE-EFFECTS

TRESS Sales are mounting- week by week...

TRESS

The new kind
of wave-set
that sets
the pace
for wave-set
sales

TRADE PRICE
14/4d. per doz.
75% Tax

RETAIL PRICE
2/8d. per bottle



STOCK IT...
DISPLAY IT...
SEE HOW IT SELLS!

SALES OF BEAUTY PRODUCTS



TRILL

The new brush-on hair
beautifier for dry and
broken hair

TRADE PRICE 13/8d. per doz. 75% Tax
RETAIL PRICE ... 2/6d. per tube



COLORAL

HAIR COLOUR RINSE

TRADE PRICE 6/2½d. per dozen cards. 75% Tax
RETAIL PRICE 1/2d. per card of two rinses

GOLDEN LTD., Now at 7 GROSVENOR STREET, LONDON, W.I. HYDe Park 1671

Trade Enquiries for the Republic of Ireland should be addressed to Lilmar Pharmaceuticals, Ltd., Santry, Dublin

GN2515A

The
CHEMIST AND DRUGGIST
 CLASSIFIED ADVERTISEMENTS
 Supplement

28 ESSEX STREET, STRAND, LONDON, W.C.2

ORRIDGE & COMPANY

CHEMIST BUSINESS TRANSFER AGENTS AND VALUERS

BRANCHES: BIRMINGHAM · SOUTHAMPTON · LIVERPOOL · SHEFFIELD · CARDIFF

Irish Representative: Mr. J. A. Bassett, Ph.C., 57 Great Victoria Street, Belfast, Northern Ireland. Tel: Belfast 27078

PREMISES WANTED

PHARMACIST and registered optician (limited company) with £1,700 stock and the usual fixtures in deteriorating area, desires suitable location and premises to re-open, or would "Partner." Box C 2592.

BUSINESSES FOR DISPOSAL

17/6 for 36 words (min.) then 4d. per word.

Box 2/-

BIRMINGHAM. Family business (mainly working class) with good optical department; based on last year's trading figures, the net profit after allowing for present staffing expenses (including Manager's salary) would have approximated £1,250; genuine reason for selling; total price approximately £4,450 including stock and fixtures estimated at £2,950; reasonable offers considered as an early sale is desired. Box C 8561.

BIRMINGHAM. Vendor emigrating and offers for early disposal substantial and rapidly increasing family business (with heavy photographic connection) in populous residential area; turnover for current financial year expected to exceed £18,000 with a high proportionate earning capacity; aggregate purchase price of which stock and fixtures, etc., are estimated to be worth about £7,400, will approximate £11,000, but reasonable offers will be considered; excellent opportunity. Confidential particulars to principals only upon receipt of bankers' references. Box C 8565.

CAMBRIDGESHIRE DRUG STORES, main street, large village 6 miles from town. First-class opportunity for development by qualified man as dispensing needed, no opposition. The business has made steady profits since established by late owner over 40 years ago. The freehold property consisting of small double-fronted shop with the business, i.e., goodwill and stock to be sold as going concern by the Executors who are running the business pending a sale. Principals apply in first instance. Box C 2580.

CROYDON. Drug store, herbal and photo business. Main road, bus stop. Smart shop. Good living accommodation. Net p.o.h. £720. Price £850, plus s.a.v. (about £630). Owner retiring. "R," 309 London Road, Croydon. C 2409

HERTFORDSHIRE. Unopposed business for sale owing to death of proprietor; trustees anxious to close estate, and prepared to accept low price for immediate sale living accommodation with three bedrooms, bathroom, etc.; moderate rent; business very easily conducted; stock and fixtures recently valued at approximately £1,025. Box C 8617.

MANUFACTURING toilet preparations and wholesale chemists' and hairdressers' sundries, as running concern, established ten years, with two vans if required. Good connection Greater London area. Flat and garage available. Phone: Riv. 1489. C 2588

PORTSMOUTH AREA. Offers invited for stock, fixtures and fittings, etc., of pharmacy now closed. Valued for probate at just over £800 stock and approximately £268 fixtures, fittings, etc. Box C 8655.

APPOINTMENTS

18/- per half-inch (min.) and pro rata.
Box 2/-

**CONNAUGHT HOSPITAL,
WALTHAMSTOW, E.17**

Locum Assistant in Dispensing
(Hall Certificate) required from September 12-17 inclusive, £10 10s. Apply Secretary, Forest Group H.M.C., Langthorne Road, E.11. C 8592

**ARCHWAY GROUP HOSPITAL
MANAGEMENT COMMITTEE,
WHITTINGTON HOSPITAL,
LONDON, N.19**

Pharmacist

Applications invited for appointment of Pharmacist at the above hospital. Salary £500 x £25-£575 x £30-£725 plus London Weighting. Candidates may visit the department by direct arrangement with the Medical Superintendent (Archway 3070).

Applicants stating age, qualifications and experience, together with the names of two referees, to Secretary, 46 Cholmeley Park, N.6, within 10 days. C 8632

**BOSTON COMBINED HOSPITALS
(319 Beds)**

Pharmacist

required. Modern department. Nationally negotiated conditions of service. Commencing salary £500 to £550 according to experience, rising annually to £725.

Apply stating age, qualifications, experience (if any) and names of two referees, to the Hospital Secretary, Boston General Hospital, Boston, Lincs.

Evenings welcome for interim period, salary £14 14s. per week. C 8630

**COUNTY HOSPITAL,
GRIFFITHSTOWN, MON.**

(253 Beds)

Dispenser

required. Apothecaries' Hall or equivalent. Salary under 22 according to age, rising from £195 at 18 to £350 at 22, 22 or over, £350 x £15 (1) x £10 (1) x £15 (5) to £450. Write stating age, experience and two referees to T. A. Jones, Group Secretary, 64 Cardff Road, Newport, Mon. C 8631

**GRIMSBY HOSPITAL
MANAGEMENT COMMITTEE,
SCARTHO ROAD INFIRMARY,
GRIMSBY**

Pharmacist

Applications are invited for the post of Pharmacist based at the above hospital, but with some supervisory duties at other Grimsby hospitals.

Whitley Scales for a 39-hour week are:—
£500 x £25 (3) to £575 x £30 (5)-£725.

Applications giving details of age, qualifications and experience to Group Secretary, 3 Queens Parade, Grimsby, as soon as possible. C 8639

**HILL END HOSPITAL,
ST. ALBANS, HERTS**

Locum Tenens Dispensing Assistant

required at the above Hospital, 20 miles from Central London from July 18 to September 3, 1955. Whitley Council salary and conditions. Applications to Hospital Secretary. C 8591

**MAYDAY HOSPITAL,
CROYDON**

(618 Beds)

Assistant in Dispensing

Applications are invited from persons holding the Certificate of the Society of Apothecaries of London or equivalent qualification for the post of Assistant in Dispensing in the above Hospital. Salary £355 at age 22, rising to £465 inclusive of London Weighting Allowance. Apply giving full details of experience and names of two referees to George A. Paines, Group Secretary, Croydon Hospital Management Committee, General Hospital, London Road, Croydon. C 8604

184 STRAND, W.C.2

Tel.: TEMple Bar 92123 & 6340

WHOLESALE AND RETAIL

SHEFFIELD · CARDIFF

Irish Representative: Mr. J. A. Bassett, Ph.C., 57 Great Victoria Street, Belfast, Northern Ireland. Tel: Belfast 27078

**BOW GROUP HOSPITAL
MANAGEMENT COMMITTEE**

Pharmacist

(Part-time: 24 hours per week) required at POPLAR HOSPITAL, East India Dock Road, E.14. Rate of pay 26s. per 4-hour session. Application forms from Group Secretary, 2A Bow Road, E.3. C 8615

**DULWICH HOSPITAL,
EAST DULWICH GROVE,
LONDON, S.E.22**

Assistant in Dispensing

required for holiday relief duties periods June 13-25 and July 11-23.

Apply to Group Secretary or Chief Pharmacist, Dulwich Hospital, for details, stating age, qualifications and experience. C 8605

**ROYAL FREE HOSPITAL GROUP,
ELIZABETH GARRETT
ANDERSON HOSPITAL,
EUSTON ROAD, W.C.1**

Pharmacist

Applications are invited for the post of Pharmacist (female) at the above hospital. Salary in accordance with Whitley Council Scale. Applications, together with names of two referees, should be addressed to the Group Chief Pharmacist, Royal Free Hospital, Gray's Inn Road, W.C.1. C 8621

**ROYAL BERKSHIRE HOSPITAL,
READING**

(Category V)

Senior Pharmacist

for Group Pharmaceutical Department. Opportunities for experience in all branches. Full supporting staff. Present salary £525-£625 p.a. (subject to increase on publication of latest Whitley Council award) plus extra for overtime sessions. Apply stating age, qualifications, experience and names of two referees to Group Pharmacist. C 216.

**ROYAL FREE HOSPITAL,
GRAY'S INN ROAD, W.C.1**

Pharmacist

Applications are invited for the post of Pharmacist at this hospital. Salary in accordance with Whitley Council Scale. Applications, with names of two referees, should be addressed to the Group Chief Pharmacist, Royal Free Hospital, Gray's Inn Road, W.C.1. C 8620

**ST. BARTHolemew's HOSPITAL,
LONDON, E.C.1**

Senior Pharmacist

(Male). Applications are invited for the post of Senior Pharmacist at this Hospital, with special responsibility for the work of the manufacturing laboratory. Appointment will be at the current Whitley Council rate, but the new scale will be applied retrospectively to the date of appointment. Canteen facilities available. Applications, in writing, stating age, qualifications and experience to Chief Pharmacist. C 8608

**ST. MARK'S HOSPITAL,
CITY ROAD, LONDON, E.C.1,
Post-graduate Teaching Hospital**

Pharmacist

Applications invited for the appointment of Pharmacist at this surgical hospital (rectal and colonic). New Whitley Council salary scale £500-£725 plus London Weighting. Additional £25 if holding higher qualification. Service in retail pharmacy, etc., taken into account in deciding commencing salary. Age, qualifications, experience, names two referees to Secretary. C 8643

'UNISEC' from the Single
Unit to the Complete Pharmacy
WRITE FOR YOUR COPY OF THE STANDARD
REFERENCE OF PHARMACY FITTING

MYERS of OLD ST.
133, 5 & 141/7 OLD STREET, LONDON, E.C.1

EST. 1883 BIS. 1941

C. Ribbands & Sons
The Complete Pharmacy Fitters
Shopfronts and Interiors
3 RAVEY ST., BISHOPSGATE, LONDON, E.C.2.

Appointments—Continued**ST. BARTHolemew's HOSPITAL,
LONDON, E.C.1****Pharmacist**

Vacancy exists for Pharmacist, Salary in accordance with the Whitley Council Scale. Write, enclosing two copies of testimonials to the Pharmacist.

**THE BETHLEM ROYAL
HOSPITAL AND THE
MAUDSLEY HOSPITAL****Senior Pharmacist**

required at the Maudsley Hospital, Denmark Hill, S.E.5, from August 1, 1955. The hospital is a Psychiatric Teaching Hospital associated with the Institute of Psychiatry in the University of London. The salary for the post is £605 a year rising by annual increments to a maximum of £780 a year including London Weighting in each case, £25 a year for higher qualification allowed. Form of application returnable within a week of the appearance of this advertisement, obtainable from K. J. Johnson, House Governor and Secretary, Maudsley Hospital, Denmark Hill, S.E.5. C 8569

**WEST DORSET GROUP
HOSPITAL****MANAGEMENT COMMITTEE****Senior Pharmacist (male or female)**

required. Salary and conditions of service in accordance with Whitley Council recommendations. Scale: £575 x £30—£725 x £25—£750 p.a. The successful candidate will be required to assist in the pharmaceutical departments at both Weymouth & District Hospital, Weymouth, and Dorset County Hospital, Dorchester. Applications giving details of age, qualifications and experience, together with names of two referees, to Group Secretary, West Dorset Group Hospital Management Committee, Damers Road, Dorchester, immediately. C 8623

**WEST LONDON HOSPITAL,
HAMMERSMITH ROAD, W.6****Senior Pharmacist****Pharmacist**

Applications invited for the following posts at the above general teaching hospital: Senior Pharmacist to take charge of production, sterile preparations and stores. Salary scale £575—£775 plus London Weighting. Additional £25 if holding higher qualification. Pharmacist. Salary scale £500—£725 plus London Weighting. Additional £25 if holding higher qualification. Service in retail pharmacy, etc., taken into account in deciding commencing salary. Age, qualifications, experience, names two referees to Secretary. C 8644

SITUATIONS OPEN

8/6 for 36 words (min.) then 3d. per word.
Box 2/-

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

RETAIL (HOME)

A FIRST-CLASS OPPORTUNITY to enter the select band of trained photographic salesmen is offered by a leading firm of West End dealers. If you have a working knowledge of cameras, chemicals, etc., then we are prepared to train you for a position in our shops. A good salary is offered whilst in training and a superannuation scheme is in operation. Only those who are willing to work and learn should apply in the first instance for an application form from the Secretary, Bennett, 25/27 Oxford Street, London, W.1. C 2557

ASSISTANT PHARMACIST, lady or gentleman, required mainly for dispensing at South London pharmacy. Ten minutes from Charing Cross and London Bridge Stations. Hours 9 a.m. to 6 p.m. Adequate supporting staff. Pleasant working conditions. Long or short engagement. Commencing salary £832 p.a. Apply Box C 212.

BOOTS THE CHEMISTS have vacancies in a number of districts for pharmacists, male and female, salary according to age and experience. Engagements on a permanent basis, good prospects, eligibility for pension, life assurance, etc. Applications should be made to Retail Staff Department, Station Street, Nottingham, stating age, experience and district preferred. C 8576

BRANCH MANAGER/PHARMACIST required for a new pharmacy on new housing estate. Applications in writing stating age, experience and salary required to the Personnel Manager, Co-operative, 110 Fratton Road, Portsmouth. C 2578

CHISWICK. Pharmacist-manager required at once; 6 p.m. closing; good salary; young single chemist preferred, as living accommodation is not immediately available. Box C 8616.

DONCASTER CO-OPERATIVE CHEMISTS, LTD. require the services of Pharmacists (male or female) as branch managers. Living accommodation with one post. Minimum rate £780 per annum, 44-hour week. Applications and usual particulars to Superintendent Chemist, St. Sepulchre Gate, Doncaster. C 199

HOLBORN, W.C.1. Young lady counter assistant required for cosmetic department. Permanent and progressive position, Saturday half-day. Apply to Mr. Hancock, 240/1 High Holborn, London, W.C.1, or telephone Holborn 7379 for an appointment. C 8593

LADY DISPENSER REQUIRED for good-class pharmacy in market town. Good hours, and staff rest room. Help given with accommodation and holiday this year. This is an interesting position with plenty of scope for initiative, and ample staff kept. Please give all details of age, salary required and previous experience to Wilfrid E. Dale, Ltd., 27 Market Place, Andover, Hants. C 2574

LIVERPOOL. Pharmacist required for branch pharmacy, permanent position. Salary £832 per annum for a 44-hour week; full staff which includes dispenser. Apply by letter to Metcalfe & Co. (Liverpool), Ltd., 34 Landford Avenue, Liverpool, 9. C 2504

LIVERPOOL CITY. Pharmaceutical manager required for city shop offering congenial situation. Half-day Saturday. Good-class trade. Small, growing dispensing department. Adequate supporting counter staff. This situation would suit either a young or older man with ability. Box C 2575.

NORTH-EAST COAST TOWN. (Pleasant seaside resort.) Pharmacist required to manage established dispensing business with adequate supporting staff. Salary £750 per annum plus bonus and rota fees. Exceptional prospects of advancement. Modern house available at moderate rental. Interview necessary. Expenses paid. Box C 8583.

OPPORTUNITY OFFERED to Pharmacist willing to work in industrial area of Manchester. Good prospects for right man. Apply for further particulars. Box C 2587.

PART-TIME PHARMACISTS, 10s. per hour, required N.1, N.16, E.C.1 and Ilford. Some evenings 6-8 and/or Sunday mornings. Dispensing duties. Apply Kendale Dispensing Chemists, 51 Exmouth Market, E.C.1. Phone: Terminus 9494. C 8652

ROYAL ARSENAL CO-OPERATIVE CHEMISTS, LTD., invite inquiries from pharmacists of either sex, who are desirous of obtaining managerial positions in south-east and south-west London, which are permanent and progressive, offering excellent salary and commission, with superannuation benefits. Housing accommodation is available and appointment for interview to discuss terms and inspect pharmacies and accommodation will be made upon application to the Staff Manager, 71 Powis Street, Woolwich, S.E.18. C 8646

SUPERINTENDENT PHARMACIST for pharmacy in Maida Vale, London, W.9. Rent free accommodation available if desired. Please give experience and salary required in first letter. Hours 9 a.m. to 6 p.m. No rota duties. Box C 2593.

LOCUMS WANTED

LOCUM PHARMACISTS REQUIRED for London and suburban areas, long or short periods. Permanency at conclusion of tour if desired. Salary and expenses basis. Apply to H. Warburton, M.P.S., Chief Pharmacist, London Co-operative Chemists, Ltd., Grange Road, Leyton, E.10. C 2597

WHOLESALE

A FIRM of manufacturing chemists situated in the Merseyside area require the services of an experienced tablet coater. Five-day week. Convenient working conditions. Apply by letter giving all usual details, Box C 8647.

AN EXPERIENCED REPRESENTATIVE required for London N. & E. by a well-known company selling nationally to chemists and good grocers products supported by national advertising. Substantial basic salary, bonus, exceptional pension, life insurance, and dependants' benefit scheme. Car allowance. Full details to Box C 8634.

AN EXPERIENCED REPRESENTATIVE required for Nottinghamshire and Derbyshire by a well-known company selling nationally to chemists and good grocers products supported by national advertising. Substantial basic salary, bonus, exceptional pension, life insurance, and dependants' benefit scheme. Car allowance. Full details to Box C 8635.

ASSISTANT ANALYST (either sex) required in the control laboratory of Messrs. Wm. R. Warner & Co., Ltd., Power Road, Chiswick, W.4. Adequate grouping in analytical techniques required and previous analab experience preferred. Initial salary based on qualifications and experience (minimum £450 p.a.) and increments related to merit. Non-contributory pension scheme. Canteen, 5-day week. C 8609

ASSISTANT ANALYST required for laboratory in the S.E. London area. Salary £750 per annum. Permanent, progressive position. Five-day week, pension scheme, canteen facilities. Apply giving details of qualifications to Box C 8624.

ASSISTANT CHIEF CHEMIST required by expanding British subsidiary of an important American Pharmaceutical Group. The post, which is a new one, would be suitable for a recently qualified graduate, who should have completed National Service. A pension scheme is in operation. Write giving personal details and salary required to Box C 2589.

BIMETICA, LTD., manufacturers of Bu-To, distributors of Pinaud Products, etc., require really first-class representatives with progressive outlook for Scotland/Wales/North-west London. Good salary, commission and expenses. Please address application to Sales Director, Biometica, Ltd., Park Road, Barnet, Herts. C 8654

REPRESENTATIVES

BURROUGHS WELLCOME & CO. invite applications from pharmacists for appointments as Medical Representatives. Applicants, who should be about 30 years of age, must possess a good educational background and wide pharmaceutical knowledge. Previous experience as a representative, while an advantage, is not essential. The position is progressive and pensionable (contributory scheme). Applications (by letter only) will be treated in confidence. They should give full details of experience, etc., and be addressed to The Manager, Home Sales Division (Medical), Burroughs Wellcome & Co., 183/193 Euston Road, London, N.W.1. C 8602

CALMIC, LTD., invite applications to fill vacancy occurring in their development laboratories. Pharmaceutical qualification or degree in chemistry essential with a keen interest in modern ethical pharmaceuticals. Superannuation scheme. Good working conditions. Write, in strict confidence, giving full particulars of previous experience and qualifications to: Chief Chemist, Calmic, Ltd., Crewe Hall, Crewe, Cheshire. C 8571

ORTHO PHARMACEUTICAL LIMITED

is looking for a young chemist or pharmacist of high aims and intelligence to fill a position of increasing responsibility in pharmaceutical production. The man we are looking for will fit into a virile rapidly advancing organisation and appreciate the exceptional opportunities offered to pursue a satisfying, secure and lucrative future as the rewards for his contributions to a successful group enterprise. Those of suitable background and qualifications to whom the terms of this advertisement appeal are cordially invited to communicate with the Director of Production, Ortho Pharmaceutical Limited, High Wycombe, Buckinghamshire.

C 8613

Situations Open—Continued

CHEMICAL MANUFACTURERS near London have vacancies in the department engaged in formulation and development of ethical products. This work is likely to appeal to young pharmacists seeking to make a career in manufacturing pharmacy. Salary will be of the order of £600 and upwards, according to qualifications and experience, with prospects of advancement. Five-day week. Apply initially in writing, giving full details, to Box C 8642.

ENERGETIC and capable man to control small busy home and export packing section. Good disciplinarian, accustomed to handle light merchandise, and preferably with knowledge of documentation. Apply Box C 8628.

EVANS MEDICAL SUPPLIES, LTD.
Veterinary Representative

Applications are invited from pharmacists with veterinary interests. The duties will include calling on and establishing contact with veterinary surgeons. Pension scheme in operation. Full details of education, experience and qualifications to Pharmaceutical Development Director, Evans Medical Supplies, Ltd., Speke, Liverpool, 19. C 8598

EVANS MEDICAL SUPPLIES, LTD.
Chief Pharmacist Copywriter

A responsible post is being created in the Evans Medical headquarters organisation for a senior man or woman pharmacist with literary ability combined with first-class pharmaceutical experience. Experience in abstracting from medical and pharmaceutical literature and compiling and preparing material for publication will be an important advantage. Remuneration will be related to qualifications, ability and experience. Pension scheme. Write giving details of age, education, qualifications and experience, and enclosing, if possible, specimens of previous work (which will be returned), to Pharmaceutical Development Director, Evans Medical Supplies, Ltd., Speke, Liverpool, 19. C 8599

EXPERIENCED MEDICAL REPRESENTATIVES required by London manufacturing chemists. Part-time or already representing one or two non-competitive products. Box C 2584.

EXPORT MANAGER. Pharmaceutical manufacturers require young, energetic export manager with experience in the ethical field. Pension fund after probationary period. Apply in confidence to Sales Manager (Pharmaceuticals), British Schering, Ltd., 229 Kensington High Street, London, W.8. C 8633

FACTORY ASSISTANT or Process Worker required by London manufacturing chemists. Applications invited from men aged 20 to 30 years, stating experience and salary required. Box C 218.

LABORATORY ASSISTANT (lady) required for manufacturing chemists in N.W. London. Some experience essential. Write details to LAB. Box C 8640.

MEDICAL REPRESENTATIVE required immediately by Lederle Laboratories in South Lancashire. Applicants should be men of striking personality and initiative, should be 25-35 and have a pharmaceutical qualification or experience with an ethical house or detail work among doctors and hospitals. Congenial, well-paid post backed by outstanding products and first-class promotional material. Liberal expenses, company car supplied. Fullest details in writing to Sales Manager, Lederle Laboratories Division, Cyanamid Products, Ltd., Bush House, London, W.C.2. C 8614

PRODUCTION PLANNING

ORTHO PHARMACEUTICAL LIMITED will shortly appoint a suitably experienced young man with initiative and intelligence to fill a position of responsibility in Production Planning. Candidates should have experience or knowledge of Work Study and Method Development though not necessarily in the Pharmaceutical industry. The appointment offers exceptional opportunities in a rapidly developing organisation for a secure and well rewarded future. Those of suitable background and experience to whom this advertisement appeals should address applications with fullest details of personal and business history to Director of Production, Ortho Pharmaceutical Limited, High Wycombe, Buckinghamshire.

C 8612

PHARMACIST WANTED immediately for wholesale. Apply John Miller, 35 Cowgate, Dundee. C 2579

PROCESS WORKER experienced in pharmaceutical manufacturing. Five-day week. Good wages. Non-contributory pension scheme. Teenager. Apply to Messrs. Wm. R. Warner & Co., Ltd., Power Road, Chiswick, W.4.

C 8610

PRICING CLERK required. Experienced in drugs and patents. Salary £500 p.a. for right person. Apply Managing Director, Biorex Laboratories, Ltd., 47/51 Exmouth Market, E.C.1. Phone: Terminus 9494. C 8650

PROCESS WORKER required by S.E. London manufacturing chemists. Five-day week. Apply giving full particulars of past experience and age to Box C 8625.

REQUIRED, a pharmacist for the position as Assistant Manager in well-known London factory of manufacturers of pharmaceutical and toilet preparations. The post offers good prospects for a man who is keen to make a career for himself in the pharmaceutical industry. Write stating age, experience and salary required to Box C 8629.

REQUIRED by London Manufacturing Chemists. Medical Representative between the ages of 25 and 40, with good pharmaceutical background and knowledge of medical nomenclature, to visit doctors, hospitals, dentists and chemists in Yorkshire, Durham and Northumberland areas for the purpose of propaganda for ethical products. Applicants should state age, experience and salary required to Box C 215.

REQUIRED, young man, recently completed National Service, as assistant to export manager of international concern, trading in chemicals and ores. Previous experience in the chemical trade desirable; must be able to type. Good salary and luncheon vouchers. Please apply Box C 8626.

SALES MANAGER. Manufacturing chemists in Northern England, marketing range of proprietary products known the world over, are appointing sales manager. Candidates, preferably between thirty and forty years of age, should have had previous experience of merchandising and active selling in this field. Responsibilities include work on marketing plans, and vigorous supervision of representative staff. The appointment is full of interest and of challenge, and after a period of qualification there is a pension scheme. Applicants are asked to detail their work to date, and state salary required. All information will be regarded as confidential; all applications will be acknowledged; and should be addressed to Managing Director, Box C 2590.

SALES MANAGER. If you have experience of sales management in the field of proprietaries, sold largely but not exclusively through chemists, you may be interested to apply for an appointment now being made in Lancashire by an old-established house. This position represents a real opportunity for the right man, who will be between 35 and 45, have experience of sales planning, and be used to working hard to see that the sales chart goes up. Applications will be treated with every confidence, and, in the first instance, they should be addressed to Managing Director, Box C 2591.

SALES REPRESENTATIVE. Well-known company marketing proprietaries, packed goods and tablets, require young man with some experience for S.E. England, to reside London or near. Work under senior supervision. Salary, commission, expenses, pension scheme, car provided. Box C 8653.

SALESMEN TRAVELLERS. Agents calling upon chemists, having regular and good connections, are required for a new nationally advertised toilet product. An easy and fast selling and regular article, top commission paid. Write stating area covered to Box C 8538.

MEDICAL REPRESENTATIVE required by ethical manufacturers for part of Yorkshire. Either pharmaceutical qualification or pharmaceutical/medical background necessary and previous representative experience is desirable though not essential. Good salary and expenses; excellent prospects for the right man who will be joining an expanding company. Car provided. Superannuation scheme. State salary expected and date available. Applications in confidence to Sales Manager, Bayer Products, Ltd., Neville House, Eden Street, Kingston, Surrey. C 8627

MEDICAL REPRESENTATIVES REQUIRED by ethical pharmaceutical manufacturers to call on hospitals and doctors in several provincial territories. Experience essential. Please send full details of career to date, and salary required. Roussel Laboratories, Ltd., 847 Harrow Road, London, N.W.10. C 8648

PARKE, DAVIS & CO., LTD., invite applications for the position of Assistant Head, Analytical Department. The duties involve all aspects of analytical control of the production of their pharmaceutical and chemical products. Candidates should hold a B.Pharm. degree and A.R.I.C. qualification or equivalent and have some previous industrial laboratory experience. Salary will be commensurate with age, qualifications and experience. Five-day week. Generous pension plan. Staff restaurant. Write giving full particulars to Personnel Manager, Staines Road, Staines, Middlesex. C 8638

PARKE, DAVIS & CO., LTD., require a lady pharmacist to assist departmental manager controlling recording and verification of formulae, D.D.A. records, and other home and overseas Government regulations pertaining to the pharmaceutical industry. This is an interesting and progressive position where previous experience is not essential. The commencing salary will be commensurate with age and qualifications. Five-day week. Generous pension plan. Staff restaurant. Write, giving full particulars to Personnel Manager, Staines Road, Hounslow, Middlesex. C 8637

PARKE, DAVIS & CO., LTD., invite applications from pharmacists for a Junior Executive position in their pharmaceutical manufacturing division. The position entails supervision of groups of process workers and offers an opportunity to gain wide experience in modern large-scale production methods. Good promotion prospects; previous manufacturing experience, while an advantage, is not essential. Five-day week. Staff restaurant. Generous pension plan. Write with full particulars to Personnel Manager, Staines Road, Hounslow, Middlesex. C 8622

PHARMACEUTICAL CHEMIST

Applications are invited from male Pharmaceutical Chemists, for the position of SENIOR CHEMIST. Some manufacturing experience helpful, but not essential. The position is permanent and offers excellent prospects in return for loyalty, hard work, and initiative. Salary will be dependent upon qualifications and experience. Applications, which will be treated in confidence, should give full particulars of past experience and present salary, and be addressed to Managing Director, Kaputine, Ltd., Alex Parsons Works, Boardman Street, Oldham. C 8572

PHARMACIST with view to works management required for manufacture and distribution of galenicals and sterile preparations. Essential qualifications, industrious and a good organiser, excellent opportunity for a young and keen pharmacist. Apply Biorex Laboratories, Ltd., 47/51 Exmouth Market, E.C.1. Phone: Terminus 9494. C 8649

RAPIDLY expanding manufacturer of ethical pharmaceutical products, with international connections, requires a chemist, pharmacist or other suitably qualified person to direct its pharmaceutical development activities in this country. In addition to controlling the pharmaceutical development laboratory, the successful candidate will have sufficient broad knowledge of the problems involved in pharmaceutical development to work closely with bacteriologists, pharmacologists and the medical and veterinary departments. Great emphasis is placed on drive and initiative for this position. The post is an interesting one and carries very good prospects for the right man. Applications in strictest confidence to Box C 8597.

Situations Open—Continued

SALES REPRESENTATIVE required for Nottingham and the East Midlands. Pharmaceutical qualification essential, A/c not exceeding 40. Salary and travelling expenses. Company pension and profit-sharing schemes. Write fully. Ref. HAC/CMH, The British Drug Houses, Ltd., Graham Street, London, N.I. C 217

STERILE INJECTION DEPT. Operators required with experience. Good organizers. Unusual opportunity is offered. Apply Biorex Laboratories, Ltd., 47/51 Exmouth Market, E.C.1. Phone: Terminus 9494. C 8651

**THE CROOKES LABORATORIES, LTD.
Medical Representative**

Applications are invited for a representative to cover the Manchester area. A pharmaceutical qualification or an adequate technical background is essential. Candidates should preferably be aged between 25-40 and possess personality and initiative. The appointment carries a progressive salary and an annual bonus/commission payment, directly associated with territorial results obtained, together with an adequate expense allowance. The position is supernumerary and only candidates with a keen desire to progress should apply, in writing, to the Sales Director, The Crookes Laboratories, Ltd., Gorst Road, Park Royal, London, N.W.10. C 8600

THE MANUFACTURERS of Kleenex, Kotex and Deltex invite applications from Sales Representatives for important appointments: (1) East Midlands—Derby, Notts, Leics and Lincoln; (2) Eastern Counties—Norfolk, Suffolk and Cambridge; (3) Northern Ireland. Applicants should be under 40 years of age, and possess good personality, above average ability and enthusiasm. Connection with retail chemists and co-ops, on the territory an advantage. Positions are salaried with all out-of-pocket expenses and offer unusual opportunities for personal advancement. Apply in confidence giving full details of age and experience to: Sales Manager, Cellucotton Products, Limited, Carvers Lane, London, N.W.5. C 8619

**WANTED
by a Firm engaged in the manufacture of
SURGICAL DRESSINGS**

A fully trained man, competent to take over complete control of the Sections concerned in the Plaster Spreading, Slitting, Re-winding and Finishing Operations. A development policy of some substance is under consideration, which would provide an excellent opportunity for the person engaged.

The appointment offers considerable scope for advancement, and is a first-class opening for a man with drive and initiative, and able to accept responsibility. Remuneration by salary, and the position is permanent. Factory, North-east Manchester. Applications in writing only, with fullest details of age, previous situations held, experience, etc., to Managing Director, Box C 8573.

WELL KNOWN cosmetic manufacturer requires representative for Midland territory. Applicants must be car owners and existing connections with chemists and stores will be an advantage. Remuneration by salary, commission, car allowance and expenses. Write stating age and experience to Box C 8636.

WHOLESALE (OVERSEAS)

PHARMACISTS REQUIRED by overseas manufacturing concern. Permanent post, good prospects. Apply Box C 2518.

C. L. BENCARD LTD. wish to appoint men of exceptional ability and first-rate experience as medical representatives in the following areas:

- (a) Yorkshire—North and East Ridings.
- (d) E. and S.E. London, bounded by Chingford, Stepney, Lewisham, Woolwich and East Ham.
- (b) S. Yorkshire, bounded by Huddersfield, Sheffield, Doncaster, Goole.
- (e) S.W. London and N. Surrey.
- (c) A Lancashire area, bounded by Bolton, Bury, Rochdale, Salford and adjacent areas.
- (f) The county of Essex.
- (g) Hants, Wilts and Dorset.
- (h) The county of Kent.

These are key appointments in a large and effective sales force backed by vigorous and progressive ethical promotion from within the company. The remuneration will be in proportion to the importance of the posts. Cars and full expenses are provided. Pension and bonus schemes are in operation.

Apply, giving full details of experience, to the Sales Manager, C. L. Bencard Ltd., Park Royal, London, N.W.10. C 8656

A LEADING PHARMACEUTICAL HOUSE invites applications from suitably qualified persons to fill an important vacancy on the sales force of their Branch Office in Nairobi. The position will appeal to young, single men with sound retail or hospital background. Representative experience in the ethical field will carry some measure of preference. Duties will consist of the promotion of the company's products to the medical profession, hospitals, and trade, and will entail short tours within the territories. Full training will be given. Contributory pension scheme. Apply initially in writing giving full details of experience, to Box C 8641.

SITUATIONS WANTED
3/- for 18 words (min.) then 2d. per word.
Box 1/-**RETAIL (HOME)**

MANAGER, 49, married, reliable, with wide retail experience, desires change. Accommodation essential unless Merseyside. Salary £936. Normal hours. Replies to Box C 2582.

WHOLESALE

EXPERIENCED MEDICAL representative, M.P.S.F., trained in anatomy, physiology, pharmacology. Excellent connections with doctors, hospitals, chemists in Eire. Willing to represent or act as agent for progressive pharmaceutical company. Box C 2581.

MANUFACTURING CHEMIST offers to share expenses with non-compete laboratory having experienced medical representatives for ethical products, well introduced in hospitals and heart and nervous diseases. Box C 2585. **SUNDRIES BUYER** with considerable executive experience, moving to the Eastern Counties for domestic reasons, requires position in a similar capacity or would be willing to travel. Car owner. Box C 2577.

AGENCIES

17/6 for 36 words (min.) then 4d. per word.
Box 2/-

INCREASED INCOME offered representatives calling on chemists, hairdressers, etc., by carrying small samples of attractive easily selling lines. Liberal commission. Apply Box C 2583.

M.A.A.—The badge of a good manufacturers' agent. Manufacturers requiring reputable agents are invited to communicate with the Secretary, The Manufacturers' Agents' Association of Great Britain & Ireland (Inc.), Bream's Buildings, E.C.4. Membership available to established agents only. Particulars supplied. C 4

WANTED
17/6 for 36 words (min.) then 4d. per word.
Box 2/-

ALL KINDS OF BOTTLES, JARS, SCREW CAPS, cartons, packaging materials and manufacturers' stocks of all kinds bought at fair price for spot cash. We are buyers of merchandise of EVERY DESCRIPTION. Clearance Stocks, Discontinued lines, Surplus and Redundant Stocks. Should you have anything for disposal, please send us samples and particulars. Reliance Trading Co., 13 New College Parade, Finchley Road, N.W.3. C 153

WE WILL PURCHASE for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, etc. No quantity too large. Our representative will call anywhere. Write or telephone:—Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledbury Road, London, W.11. Tel.: Bayswater 4020, 7692. C 140

MISCELLANEOUS SALES

17/6 for 36 words (min.) then 4d. per word.
Box 2/-

MODERN CHEMISTS SHOPFITTINGS, drapes, wall cases and frameless sliding doors, display counters and showcases; all types of window fittings and display stands. D. Matthews & Son, Ltd., Complete Chemist Shop Fitters & Shop Front Builders, 14/16 Manchester Street, Liverpool. C 141

REASONABLE OFFERS WANTED, 14 lb. terpenes peppermint oil, piperita, 20 lb. Chinese peppermint oil, double rectified, 24 lb. lemon oil, Sicilian. Stafford Bros., Bookham Street, London, N.I. C 2586

STOCKTAKING

17/6 for 36 words (min.) then 4d. per word.
Box 2/-

QUIET AND ACCURATE workmanship. Over 30 years' practical experience. Detailed inventories supplied to suit your individual requirements. Your own stock sheets priced. Terms moderate. C. W. Playfoot, 8 Aylward Road, London, S.W.20. Phone Liberty 4104. C 190

MISCELLANEOUS

SCALES AND WEIGHING MACHINES. Penny-n-the-slot and steelyard types. Dispensing scales. Write for details to Dept. "P," Vandome & Hart, Ltd., Wenlock Road, London, N.I. (Established 1660) Showrooms, High Street, Kingston-on-Thames. C 207 **SHOWCASES, SHOWCASES, SHOWCASES**. Latest designs. All sizes including glass counters. Free delivery. Write for details to (Dept. "P"), Vandome & Hart, Ltd., Wenlock Rd., London, N.I. (Established 1660) Showrooms, High Street, Kingston-on-Thames. C 196

BUSINESS OPPORTUNITIES

17/6 for 36 words (min.) then 4d. per word.
Box 2/-

MANUFACTURING CHEMISTS invite inquiries for the manufacture, packing, etc., of private formula preparations, liquids, powders, tablets. Dispatch facilities available with own printing department. Frank Macowal & Yanatas, Ltd., Wilshaw St., London, S.E.14. Tel.: Tideway 3846-8. C 122

**UP TO £500,000 AVAILABLE
FOR PURCHASE OF A BUSINESS**

Management can remain.

DEATH DUTIES—This gives Owners of Private Family Businesses a unique opportunity to make forward provision for Death Duties, thereby safeguarding the interests of their Beneficiaries. Write in strict confidence without obligation to:

REGINALD TERRELL

Managing Director

BUSINESS BROKERS LIMITED
46 St. James's Place, London, S.W.1.
Telephone: Hyde Park 1678.

C 210

Cussons ADVERTISING will make this

**THE BIGGEST
TALC SEASON
you have known!**



The wonderful fragrance of Spring

Cussons Talcum Powders capture the flower fresh magic
of Spring in the soft fragrance of Apple Blossom
and in the delicate, lingering perfume of Linden Blossom
and in the sophisticated charm of Lilac Blossom.

Cussons TALCUM POWDERS

CUSSONS OF 84 BROOK STREET CROSVENOR SQUARE LONDON W1

The demand for Cussons Talcum Powders grows greater every year, and during the coming months will receive further impetus from special large-scale advertising campaign.

Full colour pages in all the leading women's magazines will create lively sales wherever these quality products are displayed. See that your stocks are adequate to the occasion.

One of the advertisement pages which, in full colour, will dominate women's journals throughout the summer.

Display Cussons
and watch your stocks go!

SPECIAL DISPLAY MATERIAL AVAILABLE

CUSSONS SONS & CO. LTD, KERSAL VALE, MANCHESTER 7

JUNE 1 1955

IMPORTERS & EXPORTERS

OF PHARMACEUTICAL & FINE CHEMICALS

ORGANIC ACIDS

INSECTICIDES

WEED KILLERS

ESSENTIAL OILS

GUMS

FILTER AIDS

WAXES

FINE CHEMICALS

HEAVY CHEMICALS

BOTANICAL DRUGS

CHAS. H. WINDSCHUEGL LTD.

ESTABLISHED 1890

I, LEADENHALL STREET, LONDON, E.C.3

Cables: Windschuegl, London

Prompt
Delivery
from stock
or shipment
from origin